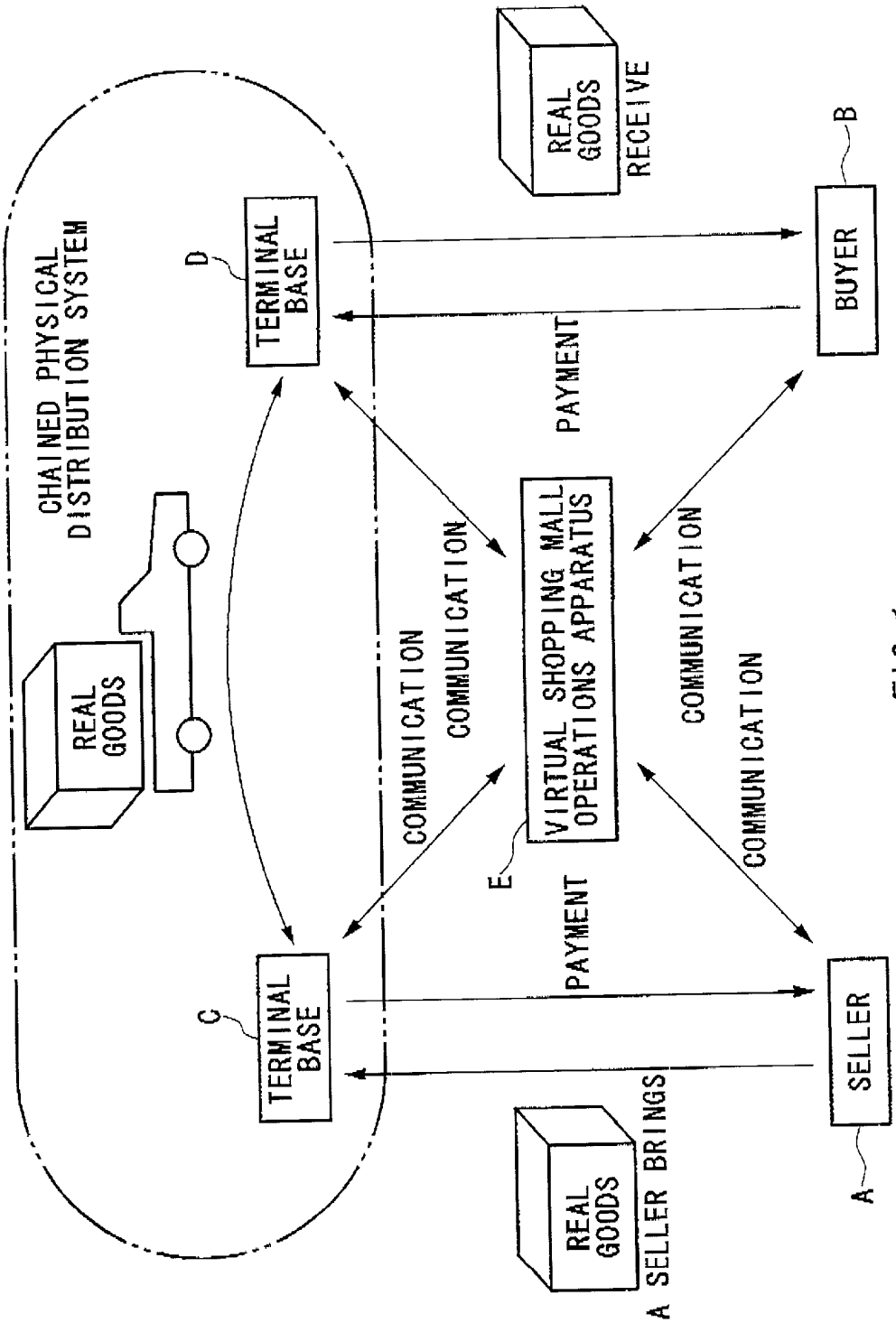

CHAINED PHYSICAL DISTRIBUTION SYSTEM
REAL GOODS
REAL GOODS
RECEIVE
REAL GOODS
A SELLER BRINGS
D
TERMINAL BASE
C
TERMINAL BASE
E
VIRTUAL SHOPPING MALL OPERATIONS APPARATUS
BUYER
B
SELLER
A
PAYMENT
PAYMENT
COMMUNICATION
COMMUNICATION
COMMUNICATION
COMMUNICATION

FIG. 1

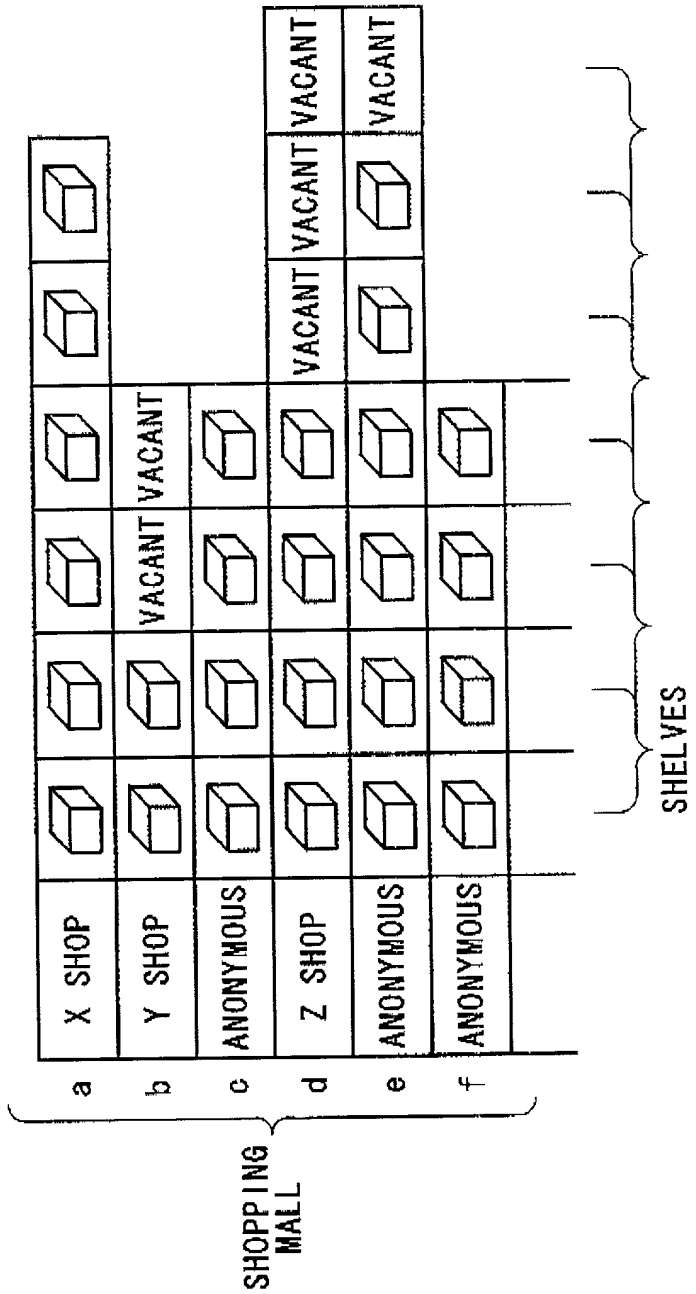

E
a
b
c
d
e
f
X SHOP
Y SHOP
ANONYMOUS
Z SHOP
ANONYMOUS
ANONYMOUS
VACANT
VACANT
VACANT
VACANT
VACANT
VACANT
SHOPPING MALL
SHELVES

FIG. 2

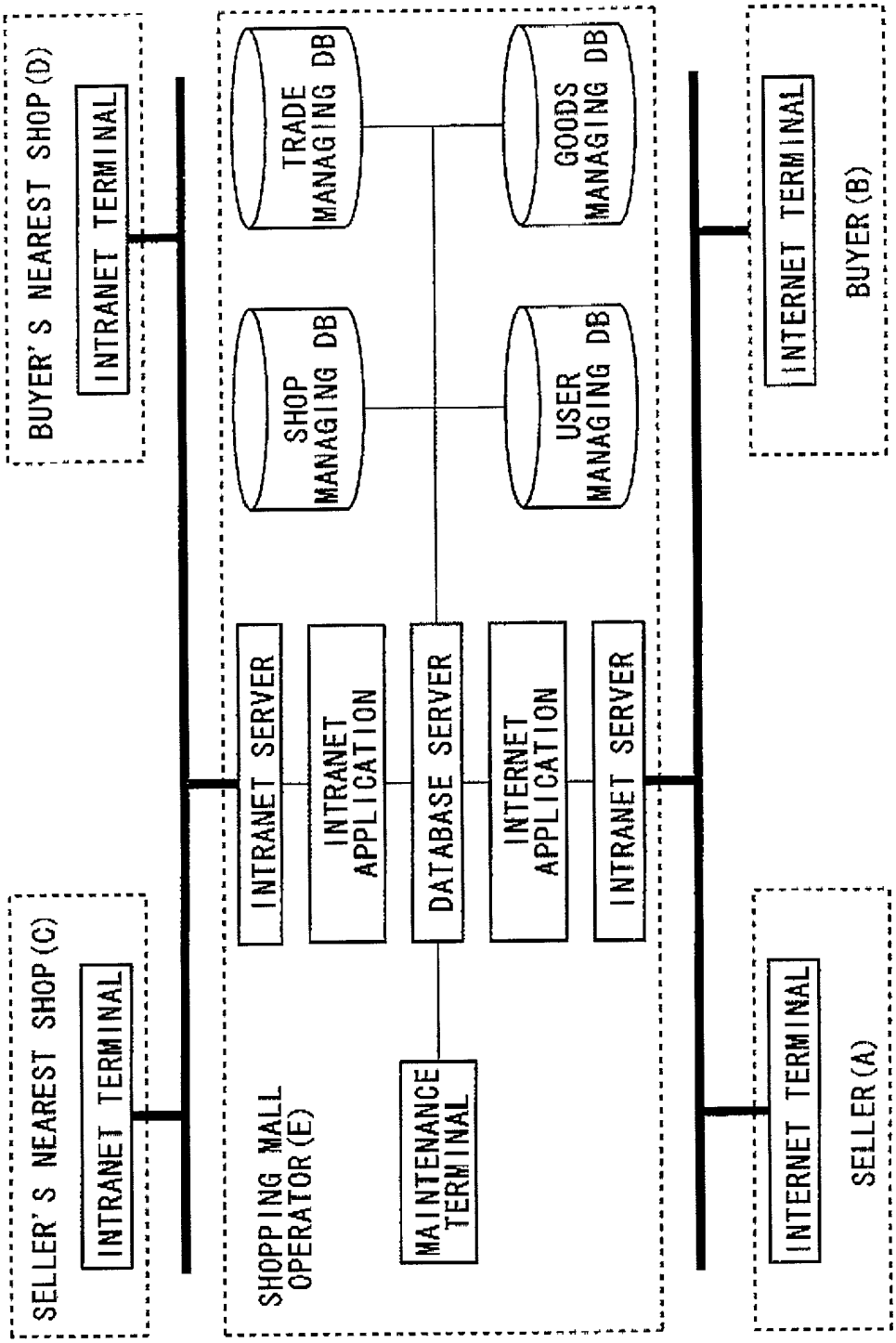

BUYER'S NEAREST SHOP(D)
INTRANET TERMINAL
SELLER'S NEAREST SHOP(C)
INTRANET TERMINAL
SHOPPING MALL OPERATOR(E)
INTRANET SERVER
INTRANET APPLICATION
DATABASE SERVER
INTERNET APPLICATION
INTRANET SERVER
MAINTENANCE TERMINAL
TRADE MANAGING DB
GOODS MANAGING DB
SHOP MANAGING DB
USER MANAGING DB
INTERNET TERMINAL
BUYER(B)
INTERNET TERMINAL
SELLER(A)

FIG. 3

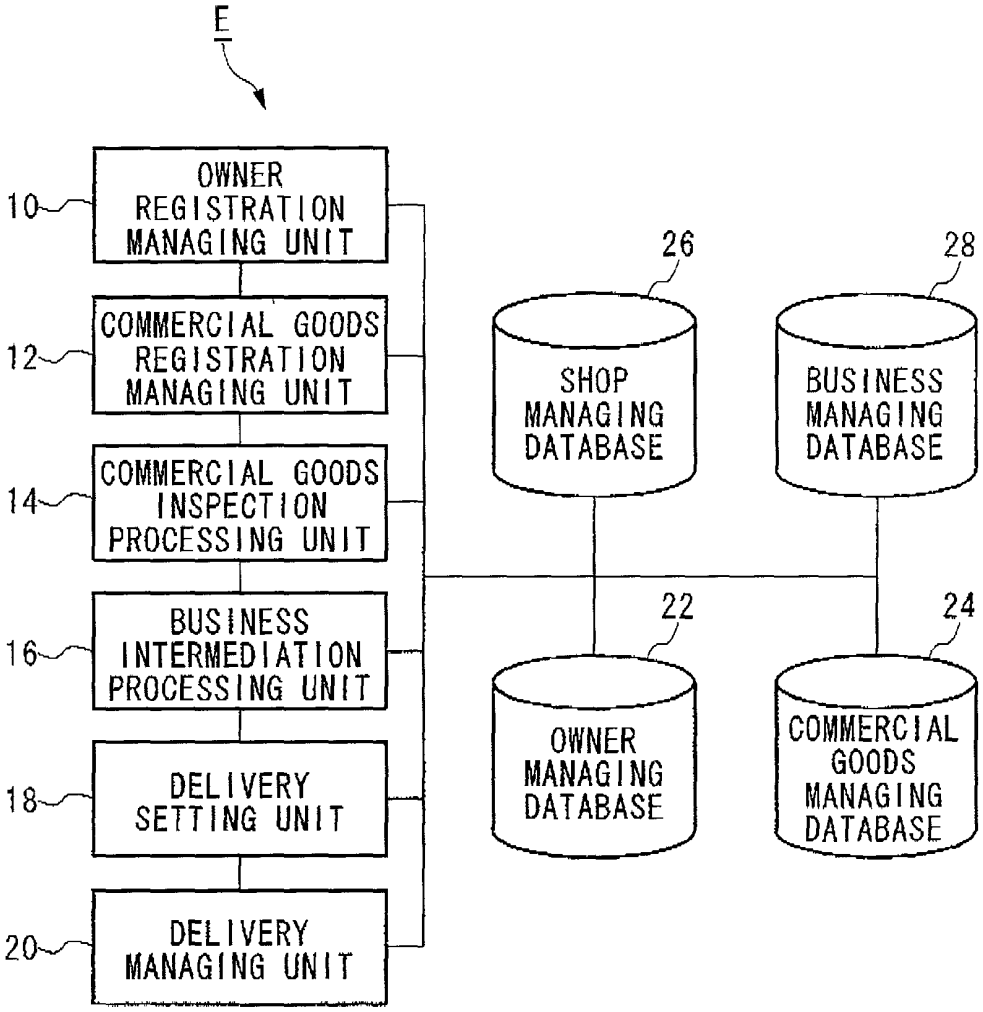

E
10
OWNER REGISTRATION MANAGING UNIT
12
COMMERCIAL GOODS REGISTRATION MANAGING UNIT
14
COMMERCIAL GOODS INSPECTION PROCESSING UNIT
16
BUSINESS INTERMEDIATION PROCESSING UNIT
18
DELIVERY SETTING UNIT
20
DELIVERY MANAGING UNIT
26
SHOP MANAGING DATABASE
28
BUSINESS MANAGING DATABASE
22
OWNER MANAGING DATABASE
24
COMMERCIAL GOODS MANAGING DATABASE

FIG. 4

22

INDEX	FAMILY NAME	FIRST NAME	NAME OF SHOP	TEL	ADDRESS
MAIN KEY	CHARACTER	CHARACTER	CHARACTER	CHARACTER	CHARACTER
1	PETERSON	JOHN	EXO	310-234-5678	SAN JOSE, CALIFORNIA…
2	WEIGN	PAUL	OZ	480-232-1331	MORGAN HILL, CALIFORNIA…
⋮	⋮	⋮	⋮	⋮	⋮

E-MAIL ADDRESS	REGISTERED SHOP INDEX	REGISTERED DATE	ID	PASSWORD	NUMBER OF SHELVES
CHARACTER	ID	DATE	CHARACTER	CHARACTER	NUMBER
exo@aaa.bbb	24	9/4/1999	H&4krP3	3hsT%kR	5
oz@ccc.ddd	11	9/7/1999	JPs(h=rH	4H;sqZs#	5
⋮	⋮	⋮	⋮	⋮	⋮

FIG. 5

24

INDEX	OWNER INDEX	CATEGORY	NAME OF GOODS	PRICE	COMMENTS
MAIN KEY	ID	CHARACTER	CHARACTER	NUMBER	CHARACTER
1	2	CLOCK	GRANDPA'S OLD CLOCK	$50	STILL MOVING···
2	1	CLOTHES	COWBOY HAT	$20	REAL AMERICAN···
⋮	⋮	⋮	⋮	⋮	⋮

SUM TOTAL OF ITEMS SOLD	STATUS OF NAME DISCLOSURE	STATUS OF SALE	REGISTERED DATE
NUMBER	BOOLEAN VALUE	BOOLEAN VALUE	DATE
0	N	Y	9/29/1999
0	Y	Y	10/22/1999
⋮	⋮	⋮	⋮

FIG. 6

INDEX	NAME OF SHOP	TEL	ADDRESS	FAX	E-MAIL ADDRESS	SHOP CODE	REGISTERED DATE
MAIN KEY	CHARACTER	CHARACTER	CHARACTER	CHARACTER	CHARACTER	CHARACTER	DATE
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
24	NY	03-1111-2222	POTSDAM, NEW YORK	310-111-2223	SESB@abc. xyz	SESB01	1/19/1999
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG. 7

00-12-22-18:05 81353567288 RYUKA IP LAW FIRM ページ 71
FF-0113

28

INDEX	TRADE ID	GOODS INDEX	RECEIVER SHOP INDEX	TEL NO. OF PURCHASER	E-MAIL ADDRESS OF PURCHASER	REGISTERED DATE	PROGRESS
MAIN KEY	CHARACTER	ID	ID	CHARACTER	CHARACTER	DATE	NUMBER
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
4142	5102634	2	11	480-444-7777	weigh@aaa.bbb	12/9/1999	4
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG. 8

BASIC FEES

CATEGORY OF SHOP	SHELVES	INITIAL FEE	MONTHLY FEE
Shop-S	5	$10	—
Shop-M	10～100	$100	$1 × NUMBER OF SHELVES
Shop-L	20～1000	$500	$2 × NUMBER OF SHELVES

FEES FOR EACH TRADE

AMOUNT TRADED	FEE
～$10	$1
$10～$50	$1.50
$50～$300	$2.50
#300～$2,000	$5
$2,000～	$10

FIG. 9

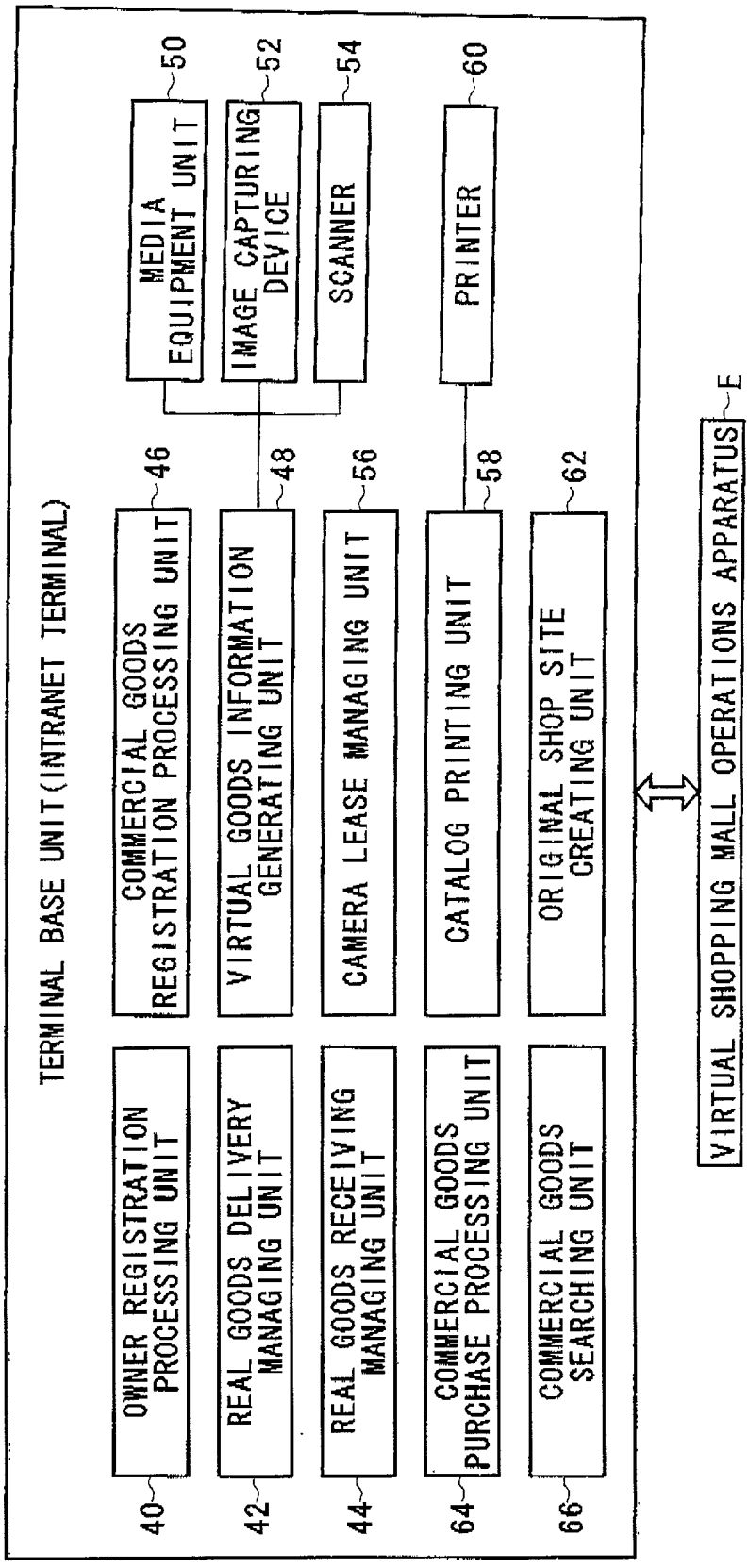

TERMINAL BASE UNIT(INTRANET TERMINAL)
OWNER REGISTRATION PROCESSING UNIT
40
REAL GOODS DELIVERY MANAGING UNIT
42
REAL GOODS RECEIVING MANAGING UNIT
44
COMMERCIAL GOODS PURCHASE PROCESSING UNIT
64
COMMERCIAL GOODS SEARCHING UNIT
66
COMMERCIAL GOODS REGISTRATION PROCESSING UNIT
46
VIRTUAL GOODS INFORMATION GENERATING UNIT
48
CAMERA LEASE MANAGING UNIT
56
CATALOG PRINTING UNIT
58
ORIGINAL SHOP SITE CREATING UNIT
62
MEDIA EQUIPMENT UNIT
50
IMAGE CAPTURING DEVICE
52
SCANNER
54
PRINTER
60
VIRTUAL SHOPPING MALL OPERATIONS APPARATUS
E

FIG. 10

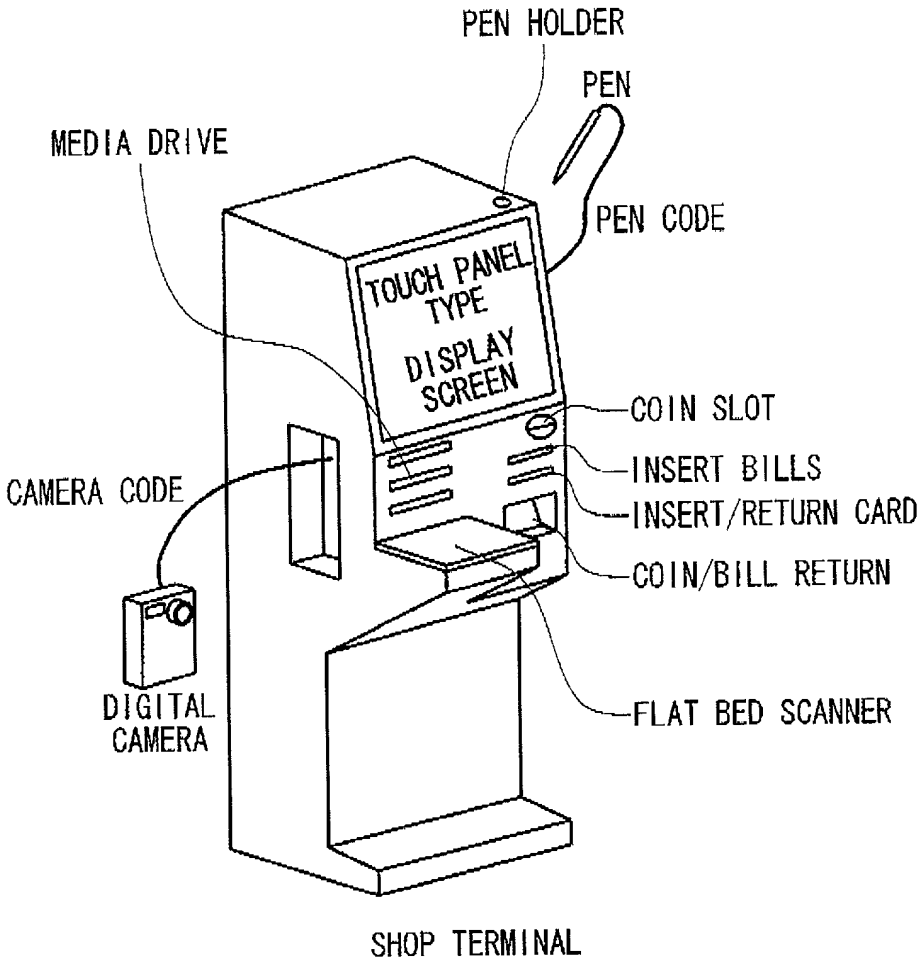

PEN HOLDER
PEN
MEDIA DRIVE
PEN CODE
TOUCH PANEL TYPE DISPLAY SCREEN
COIN SLOT
INSERT BILLS
CAMERA CODE
INSERT/RETURN CARD
COIN/BILL RETURN
DIGITAL CAMERA
FLAT BED SCANNER
SHOP TERMINAL

FIG. 11

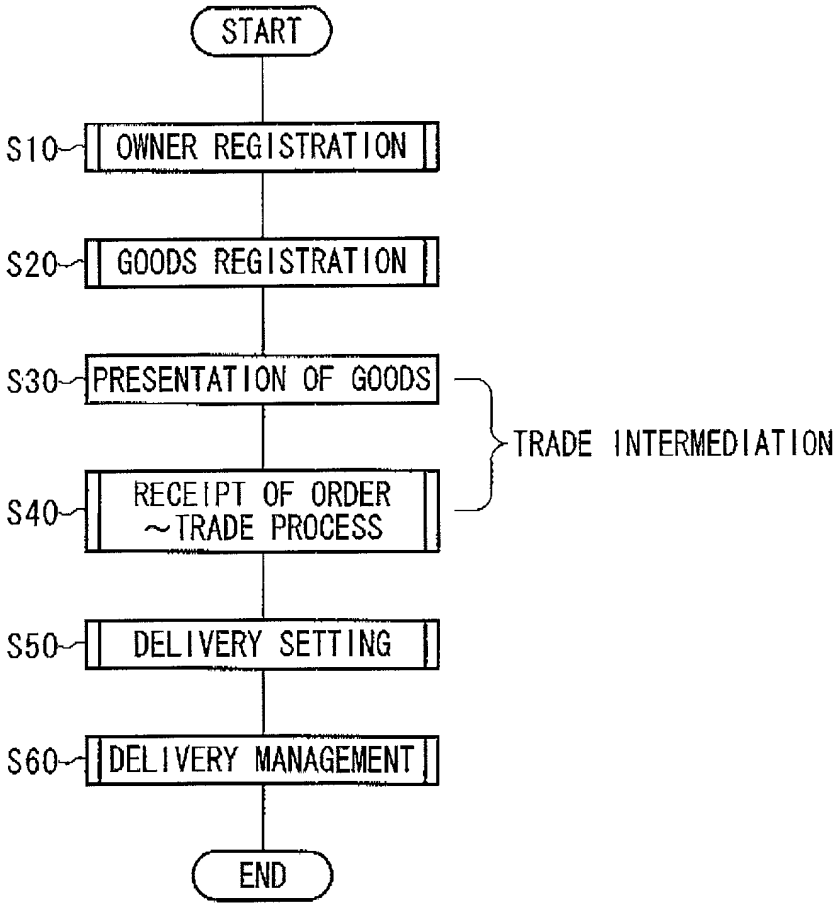

START
S10
OWNER REGISTRATION
S20
GOODS REGISTRATION
S30
PRESENTATION OF GOODS
S40
RECEIPT OF ORDER ~TRADE PROCESS
TRADE INTERMEDIATION
S50
DELIVERY SETTING
S60
DELIVERY MANAGEMENT
END

FIG. 12

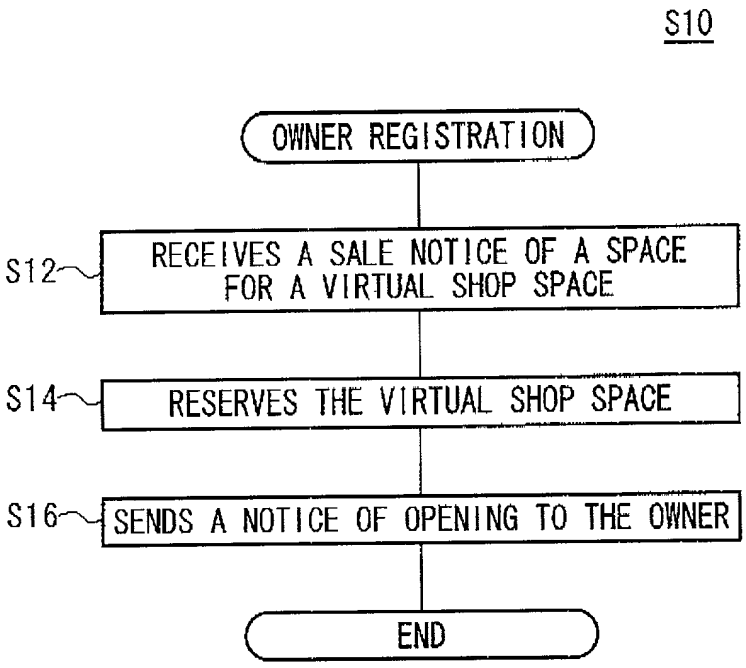

S10
OWNER REGISTRATION
S12
RECEIVES A SALE NOTICE OF A SPACE FOR A VIRTUAL SHOP SPACE
S14
RESERVES THE VIRTUAL SHOP SPACE
S16
SENDS A NOTICE OF OPENING TO THE OWNER
END

FIG. 13

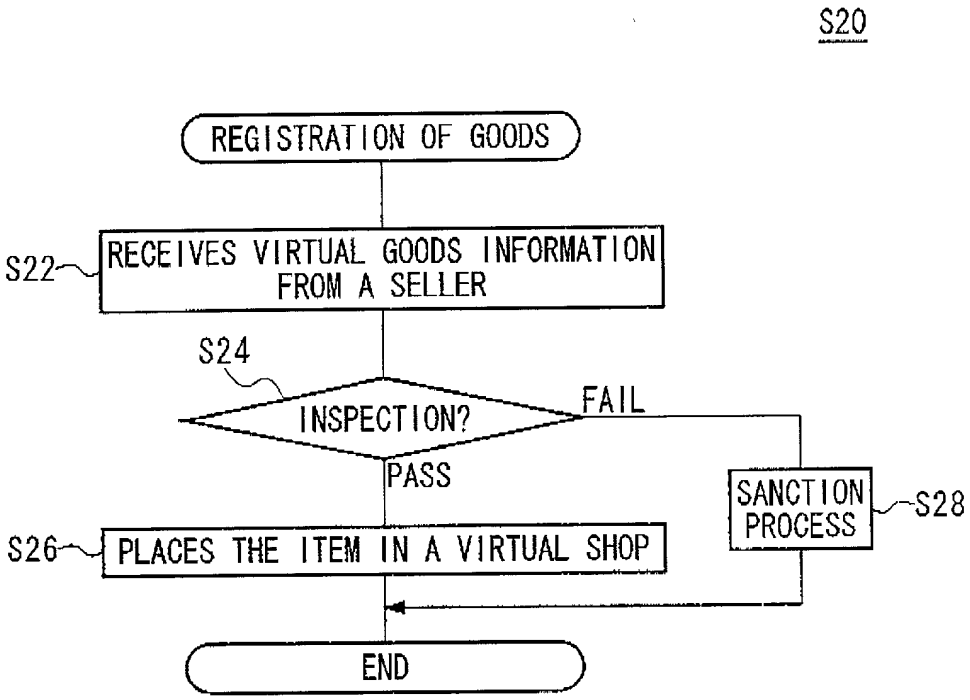

S20
REGISTRATION OF GOODS
S22
RECEIVES VIRTUAL GOODS INFORMATION FROM A SELLER
S24
INSPECTION?
FAIL
PASS
SANCTION PROCESS
S28
S26
PLACES THE ITEM IN A VIRTUAL SHOP
END

FIG. 14

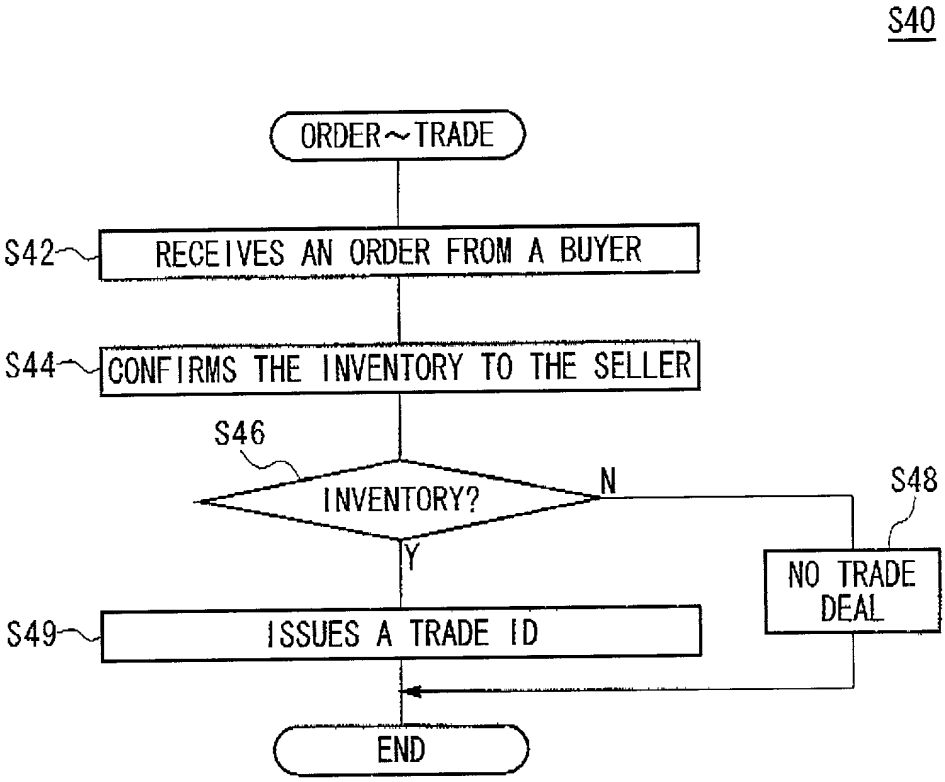

S40
ORDER~TRADE
S42
RECEIVES AN ORDER FROM A BUYER
S44
CONFIRMS THE INVENTORY TO THE SELLER
S46
INVENTORY?
N
S48
NO TRADE DEAL
Y
S49
ISSUES A TRADE ID
END

FIG. 15

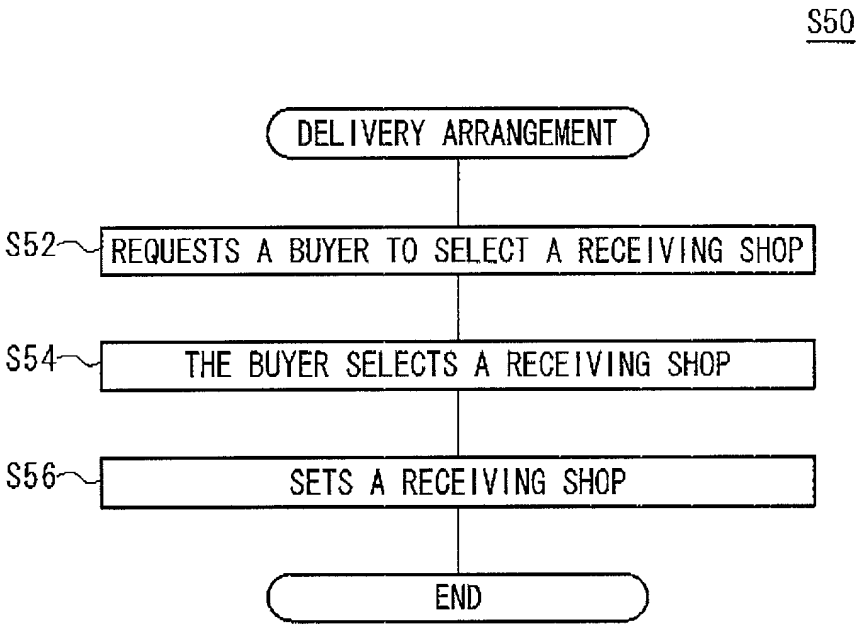

S50
DELIVERY ARRANGEMENT
S52
REQUESTS A BUYER TO SELECT A RECEIVING SHOP
S54
THE BUYER SELECTS A RECEIVING SHOP
S56
SETS A RECEIVING SHOP
END

FIG. 16

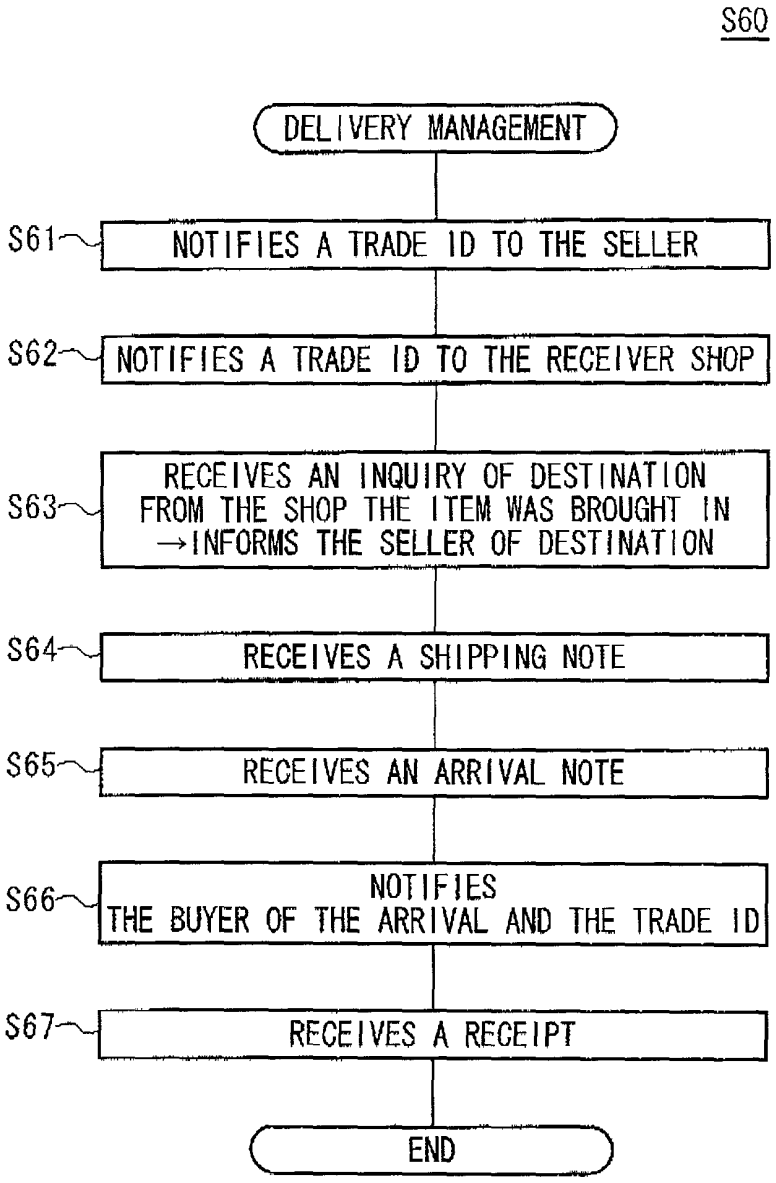

S60
DELIVERY MANAGEMENT
S61
NOTIFIES A TRADE ID TO THE SELLER
S62
NOTIFIES A TRADE ID TO THE RECEIVER SHOP
S63
RECEIVES AN INQUIRY OF DESTINATION FROM THE SHOP THE ITEM WAS BROUGHT IN →INFORMS THE SELLER OF DESTINATION
S64
RECEIVES A SHIPPING NOTE
S65
RECEIVES AN ARRIVAL NOTE
S66
NOTIFIES THE BUYER OF THE ARRIVAL AND THE TRADE ID
S67
RECEIVES A RECEIPT
END

FIG. 17

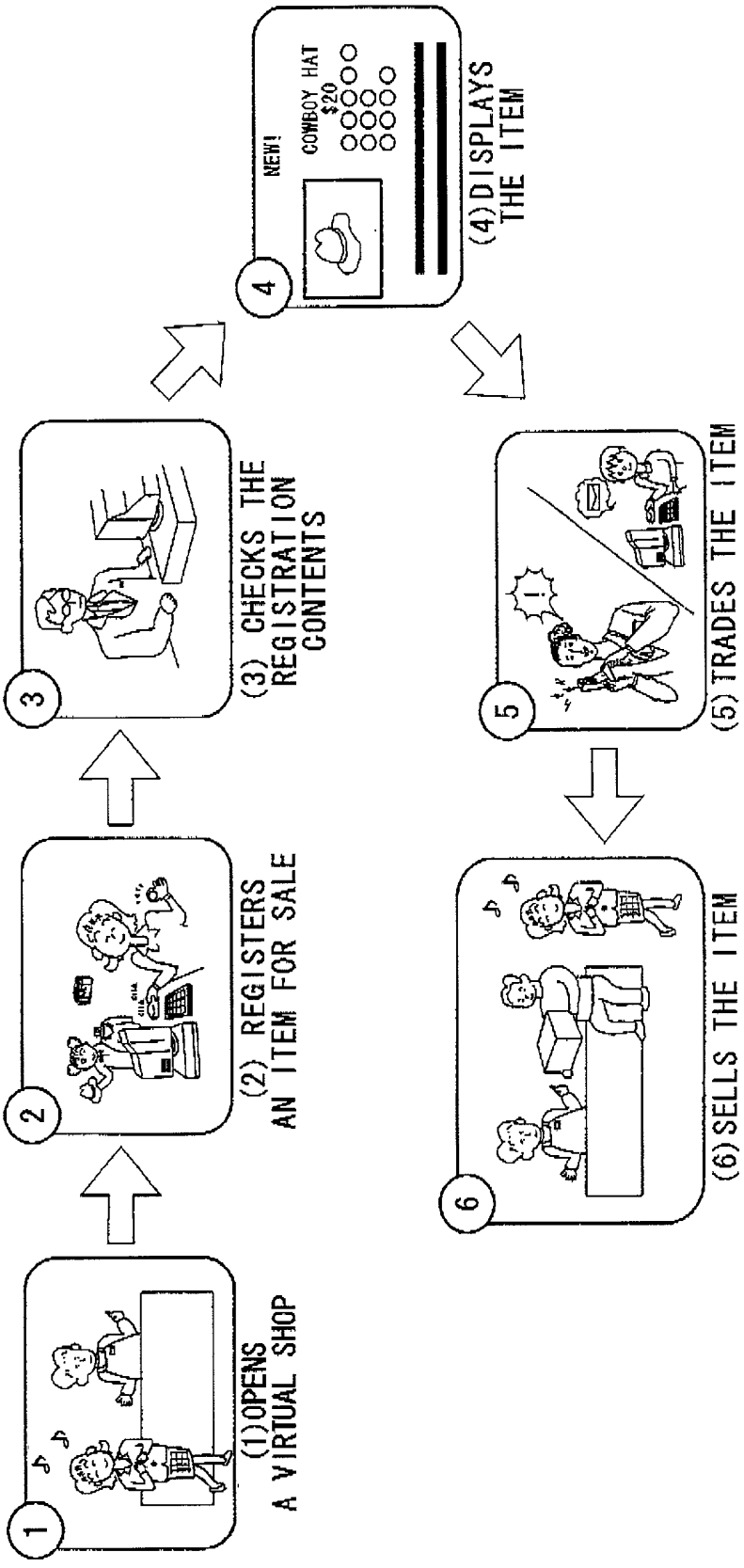

(1)OPENS A VIRTUAL SHOP
(2) REGISTERS AN ITEM FOR SALE
(3) CHECKS THE REGISTRATION CONTENTS
(4)DISPLAYS THE ITEM
NEW!
COWBOY HAT
$20
(5) TRADES THE ITEM
(6)SELLS THE ITEM

FIG. 18

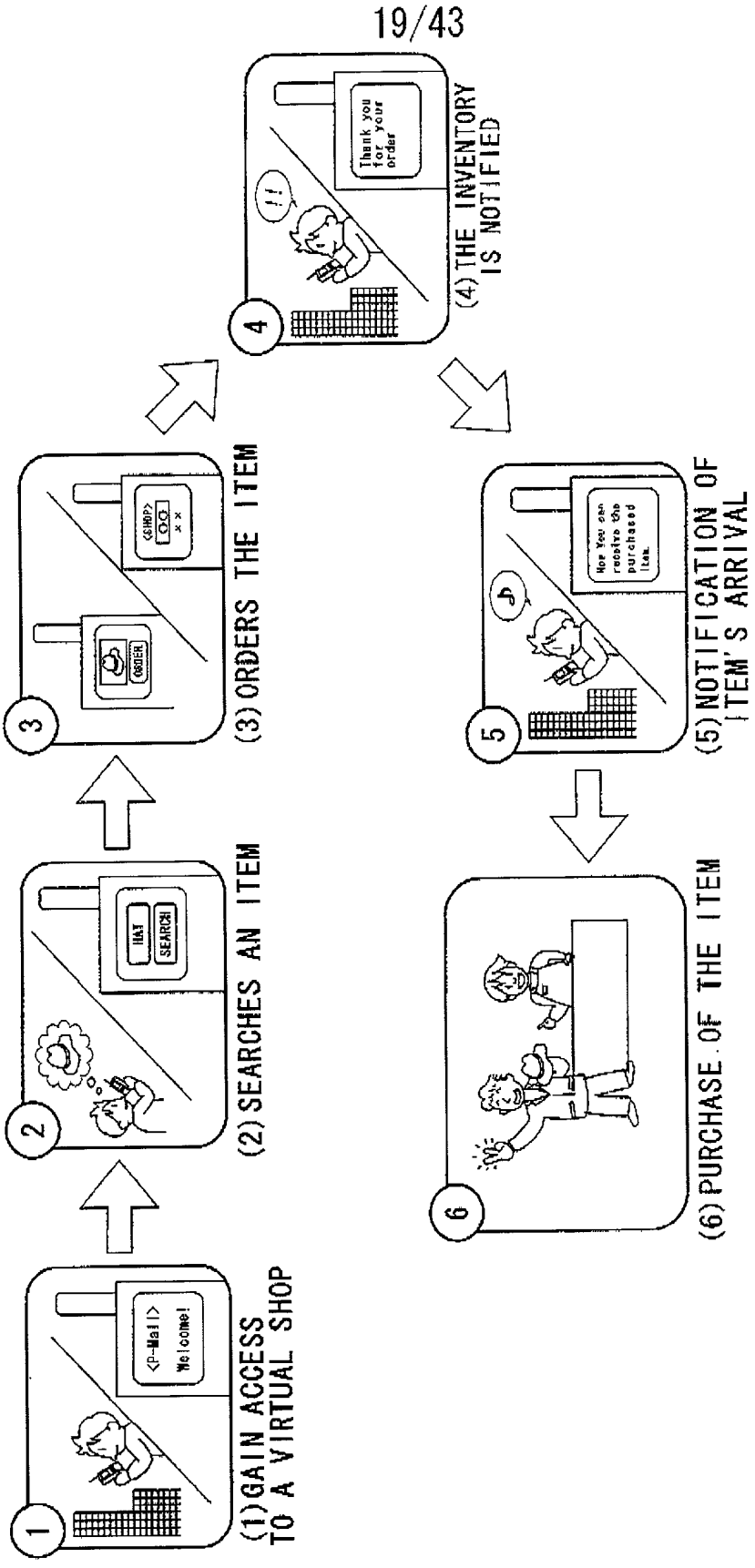

(1) GAIN ACCESS TO A VIRTUAL SHOP
<P-Mall>
Welcome!
(2) SEARCHES AN ITEM
HAT
SEARCH
(3) ORDERS THE ITEM
ORDER
(4) THE INVENTORY IS NOTIFIED
Thank you for your order
(5) NOTIFICATION OF ITEM'S ARRIVAL
Now you can receive the purchased item.
(6) PURCHASE OF THE ITEM

FIG. 19

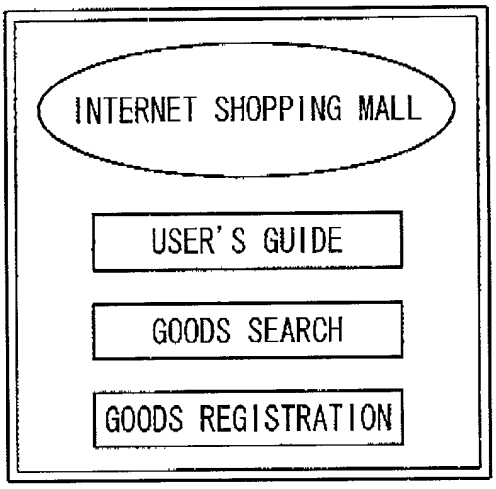

INTERNET SHOPPING MALL
USER'S GUIDE
GOODS SEARCH
GOODS REGISTRATION

FIG. 20

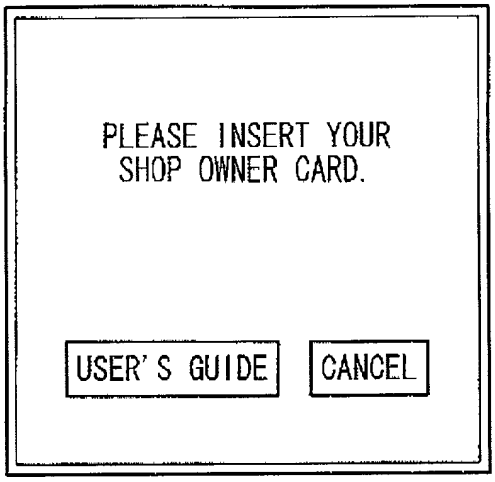

PLEASE INSERT YOUR
SHOP OWNER CARD.
USER'S GUIDE
CANCEL

FIG. 21

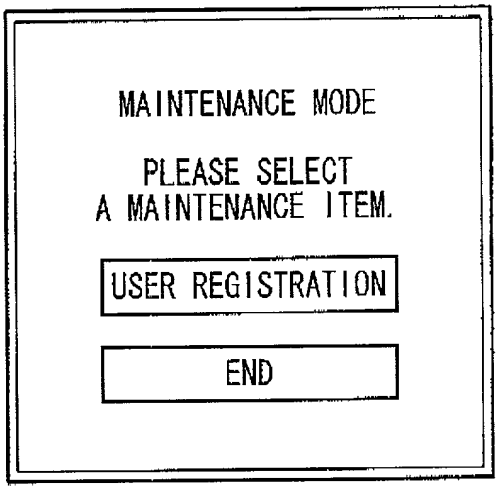

MAINTENANCE MODE
PLEASE SELECT
A MAINTENANCE ITEM.
USER REGISTRATION
END

FIG. 22

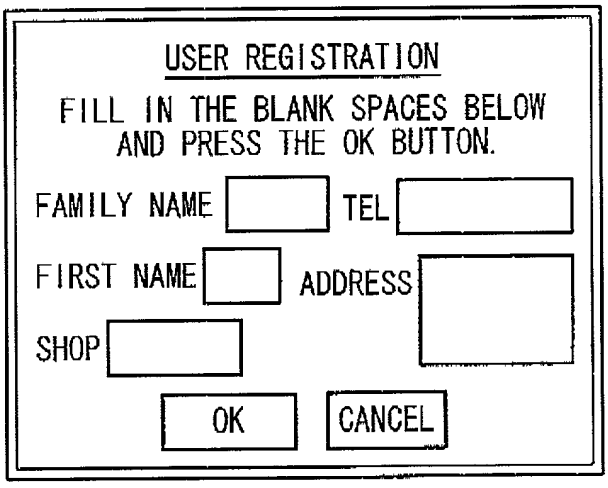

USER REGISTRATION
FILL IN THE BLANK SPACES BELOW
AND PRESS THE OK BUTTON.
FAMILY NAME
TEL
FIRST NAME
ADDRESS
SHOP
OK
CANCEL

FIG. 23

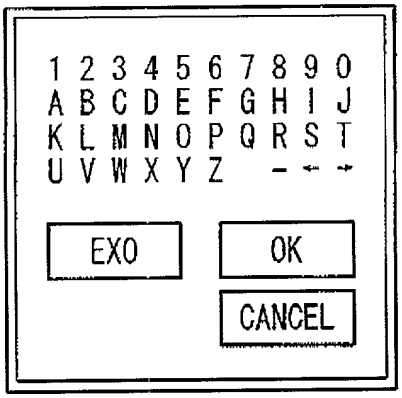

1 2 3 4 5 6 7 8 9 0
A B C D E F G H I J
K L M N O P Q R S T
U V W X Y Z - ← →
EXO
OK
CANCEL

FIG. 24

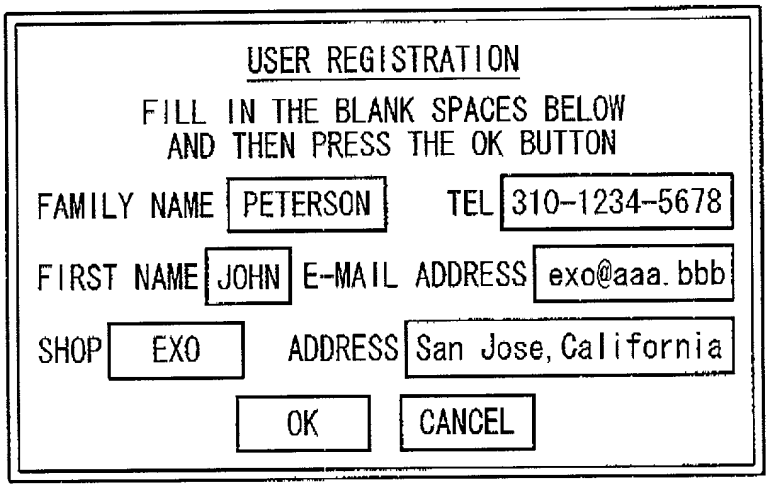

USER REGISTRATION
FILL IN THE BLANK SPACES BELOW
AND THEN PRESS THE OK BUTTON
FAMILY NAME
PETERSON
TEL
310-1234-5678
FIRST NAME
JOHN
E-MAIL ADDRESS
exo@aaa.bbb
SHOP
EXO
ADDRESS
San Jose, California
OK
CANCEL

FIG. 25

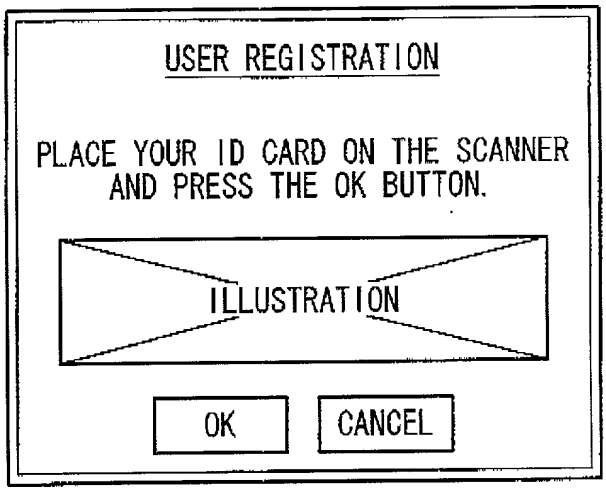

USER REGISTRATION
PLACE YOUR ID CARD ON THE SCANNER AND PRESS THE OK BUTTON.
ILLUSTRATION
OK
CANCEL

FIG. 26

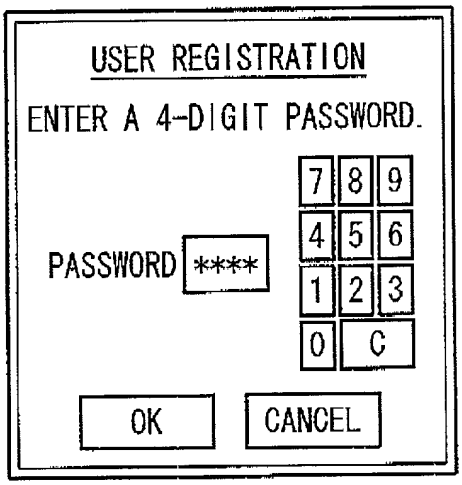

USER REGISTRATION
ENTER A 4-DIGIT PASSWORD.
PASSWORD
****
7 8 9
4 5 6
1 2 3
0 C
OK
CANCEL

FIG. 27

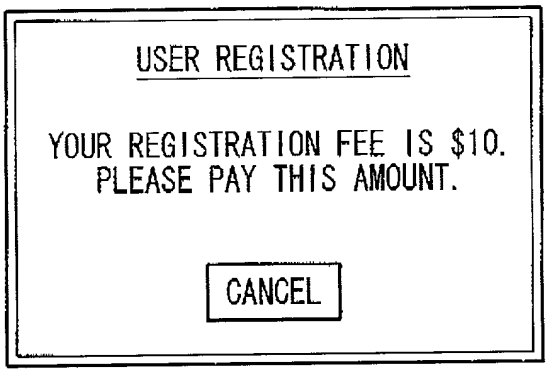

USER REGISTRATION
YOUR REGISTRATION FEE IS $10.
PLEASE PAY THIS AMOUNT.
CANCEL

FIG. 28

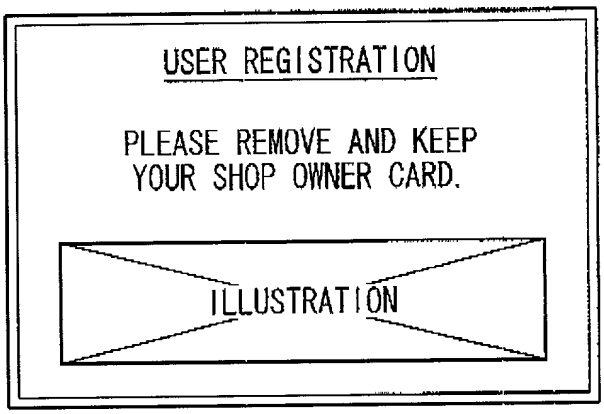

USER REGISTRATION
PLEASE REMOVE AND KEEP
YOUR SHOP OWNER CARD.
ILLUSTRATION

FIG. 29

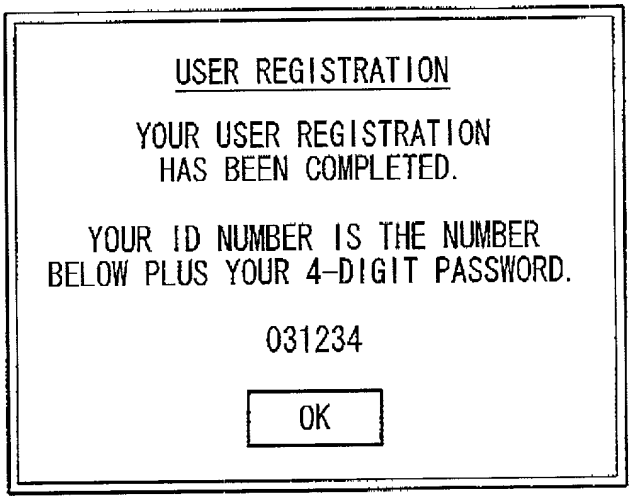

USER REGISTRATION
YOUR USER REGISTRATION
HAS BEEN COMPLETED.
YOUR ID NUMBER IS THE NUMBER
BELOW PLUS YOUR 4-DIGIT PASSWORD.
031234
OK

FIG. 30

PLEASE REMOVE AND KEEP YOUR
SHOP OWNER CARD.

FIG. 31

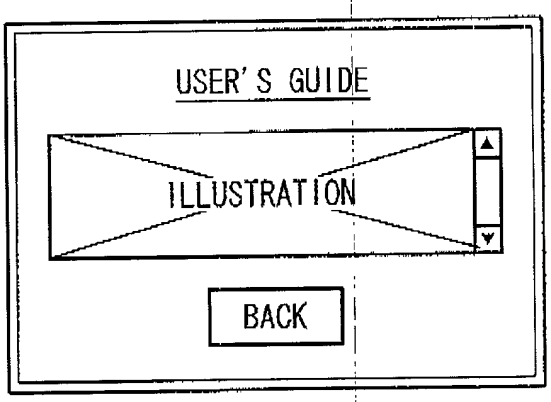

USER'S GUIDE
ILLUSTRATION
BACK

FIG. 32

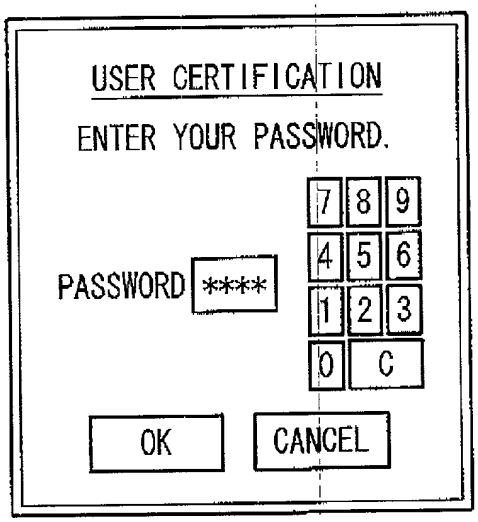

USER CERTIFICATION
ENTER YOUR PASSWORD.
PASSWORD ****
7 8 9
4 5 6
1 2 3
0 C
OK
CANCEL

FIG. 33

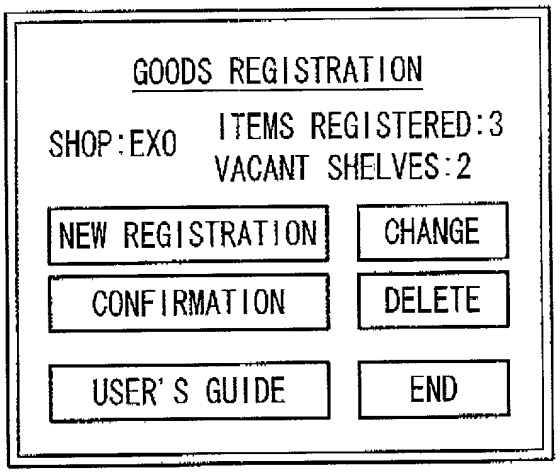

GOODS REGISTRATION
SHOP:EXO
ITEMS REGISTERED:3
VACANT SHELVES:2
NEW REGISTRATION
CHANGE
CONFIRMATION
DELETE
USER'S GUIDE
END

FIG. 34

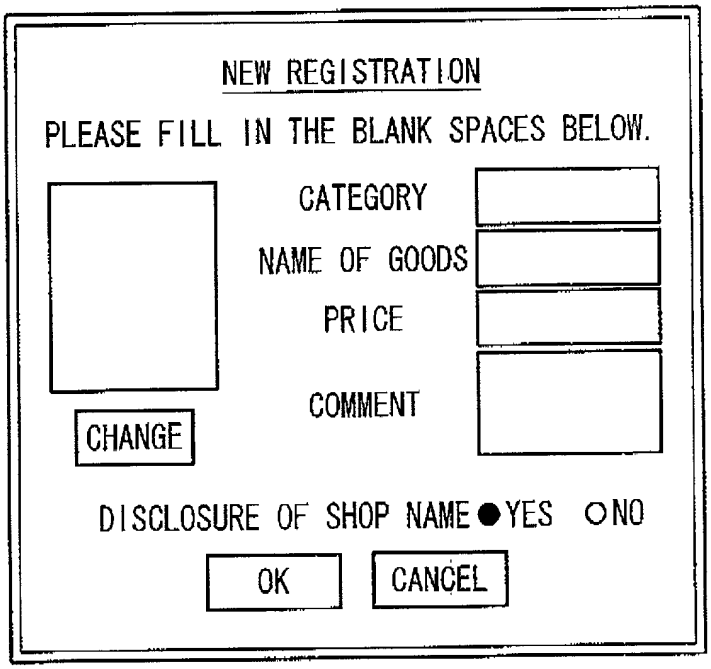

NEW REGISTRATION
PLEASE FILL IN THE BLANK SPACES BELOW.
CATEGORY
NAME OF GOODS
PRICE
COMMENT
CHANGE
DISCLOSURE OF SHOP NAME ●YES ○NO
OK
CANCEL

FIG. 35

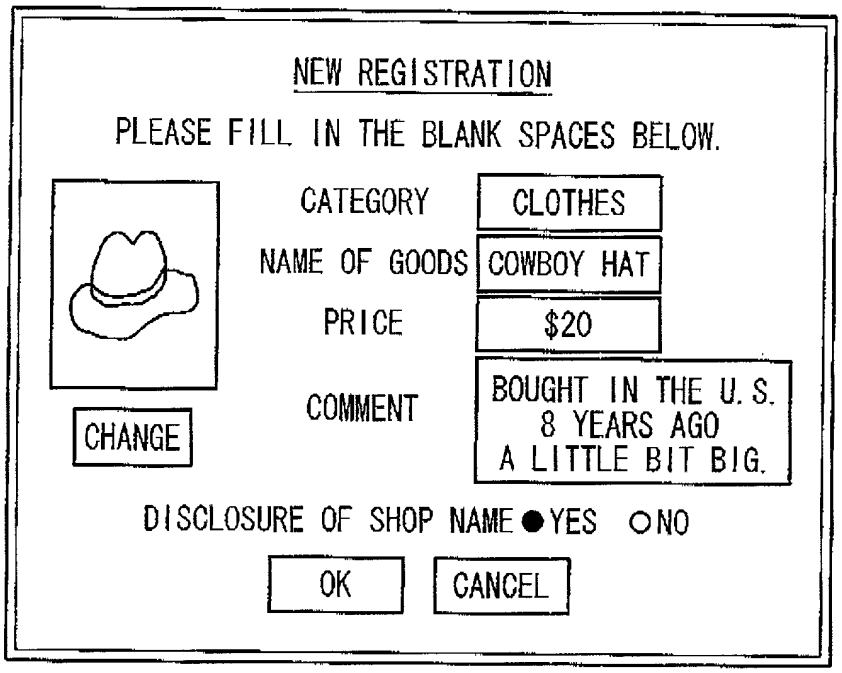

NEW REGISTRATION
PLEASE FILL IN THE BLANK SPACES BELOW.
CATEGORY
CLOTHES
NAME OF GOODS
COWBOY HAT
PRICE
$20
COMMENT
BOUGHT IN THE U.S.
8 YEARS AGO
A LITTLE BIT BIG.
CHANGE
DISCLOSURE OF SHOP NAME ● YES ○ NO
OK
CANCEL

FIG. 36

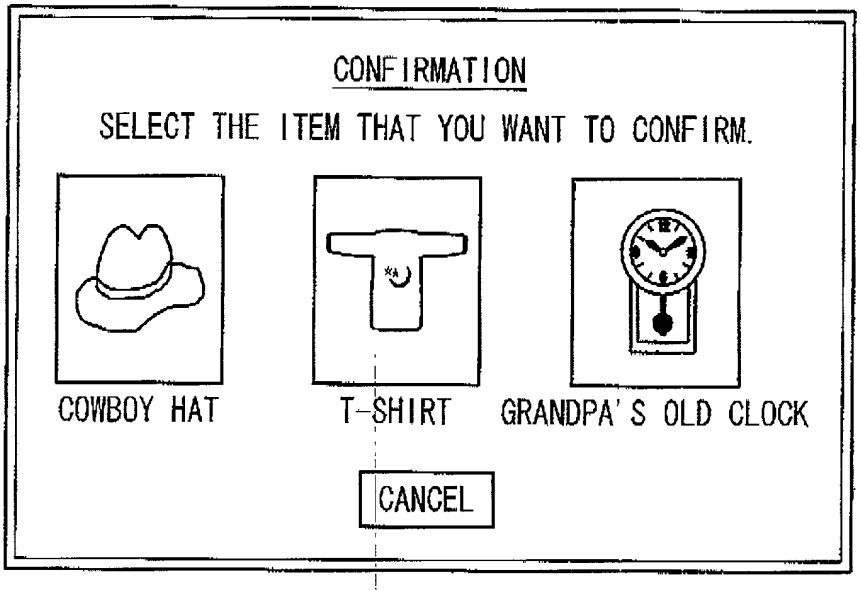

CONFIRMATION
SELECT THE ITEM THAT YOU WANT TO CONFIRM.
COWBOY HAT
T-SHIRT
GRANDPA'S OLD CLOCK
CANCEL

FIG. 37

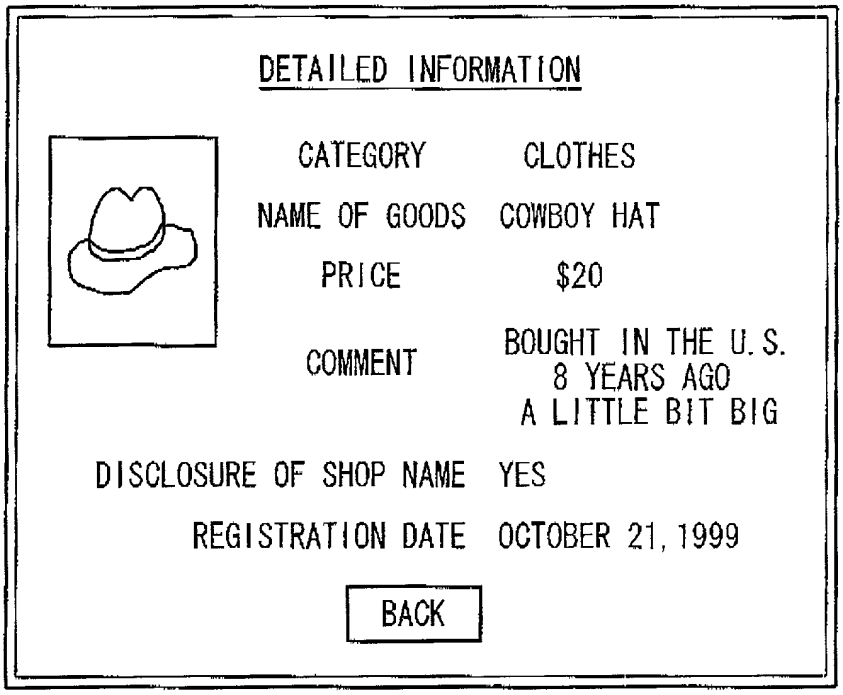

DETAILED INFORMATION
CATEGORY CLOTHES
NAME OF GOODS COWBOY HAT
PRICE $20
COMMENT BOUGHT IN THE U.S.
8 YEARS AGO
A LITTLE BIT BIG
DISCLOSURE OF SHOP NAME YES
REGISTRATION DATE OCTOBER 21, 1999
BACK

FIG. 38

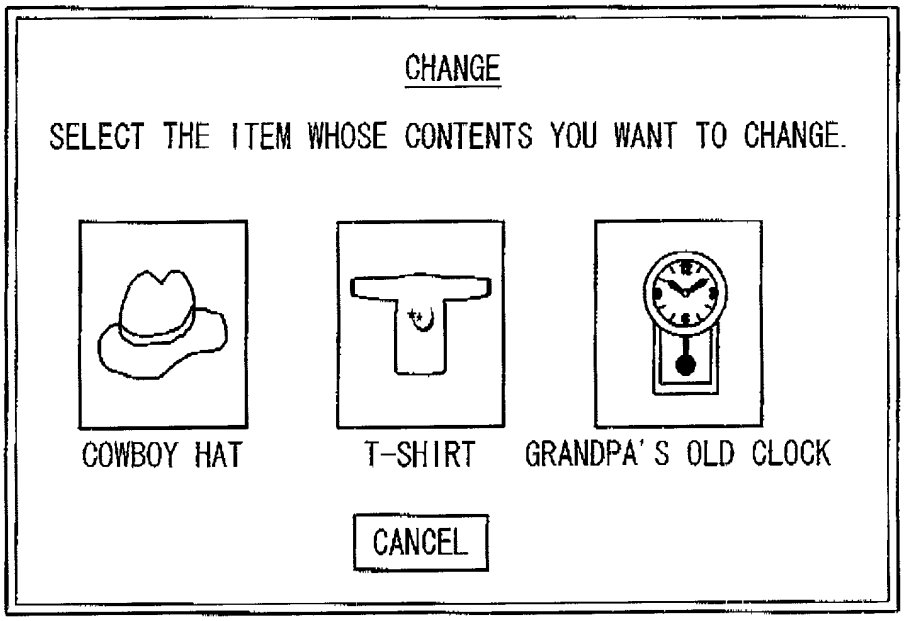

CHANGE
SELECT THE ITEM WHOSE CONTENTS YOU WANT TO CHANGE.
COWBOY HAT
T-SHIRT
GRANDPA'S OLD CLOCK
CANCEL

FIG. 39

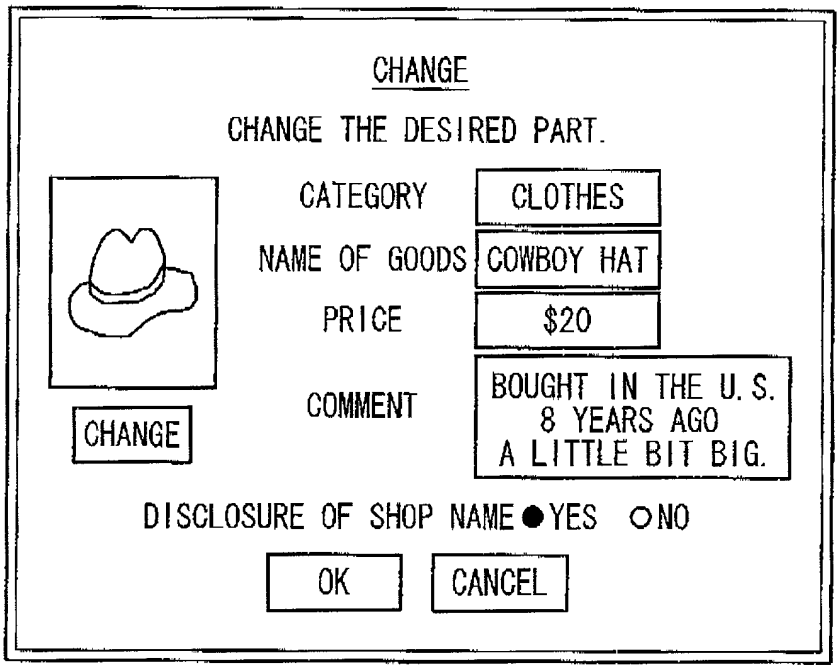

CHANGE
CHANGE THE DESIRED PART.
CATEGORY
CLOTHES
NAME OF GOODS
COWBOY HAT
PRICE
$20
COMMENT
BOUGHT IN THE U.S.
8 YEARS AGO
A LITTLE BIT BIG.
CHANGE
DISCLOSURE OF SHOP NAME ●YES ○NO
OK
CANCEL

FIG. 40

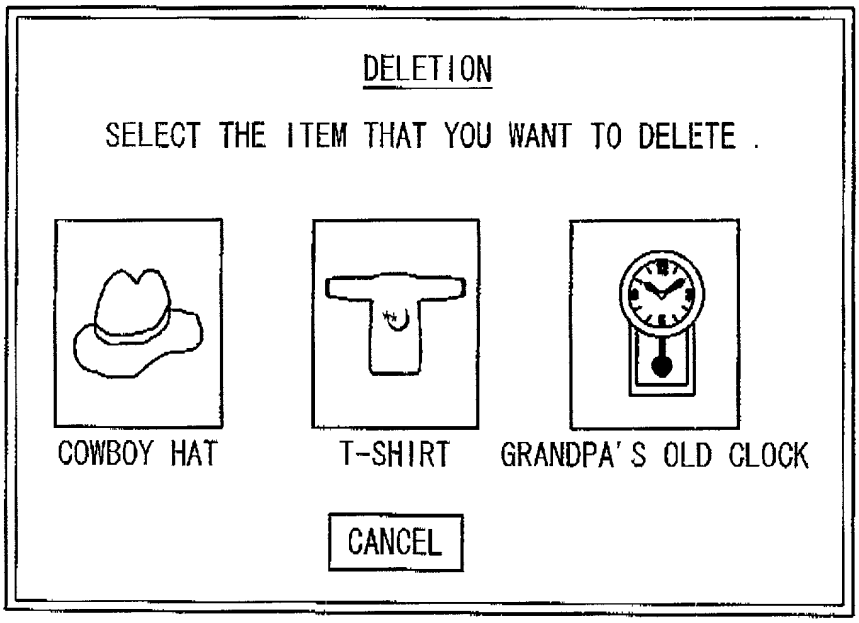

DELETION
SELECT THE ITEM THAT YOU WANT TO DELETE .
COWBOY HAT
T-SHIRT
GRANDPA'S OLD CLOCK
CANCEL

FIG. 41

DETAILED INFORMATION
DO YOU WANT TO DELETE THIS ITEM ?.
CATEGORY CLOTHES
NAME OF GOODS COWBOY HAT
PRICE $20
COMMENT BOUGHT IN THE U.S.
8 YEARS AGO
A LITTLE BIT BIG.
DISCLOSURE OF SHOP NAME YES
REGISTRATION DATE OCTOBER 21, 1999
OK
CANCEL

FIG. 42

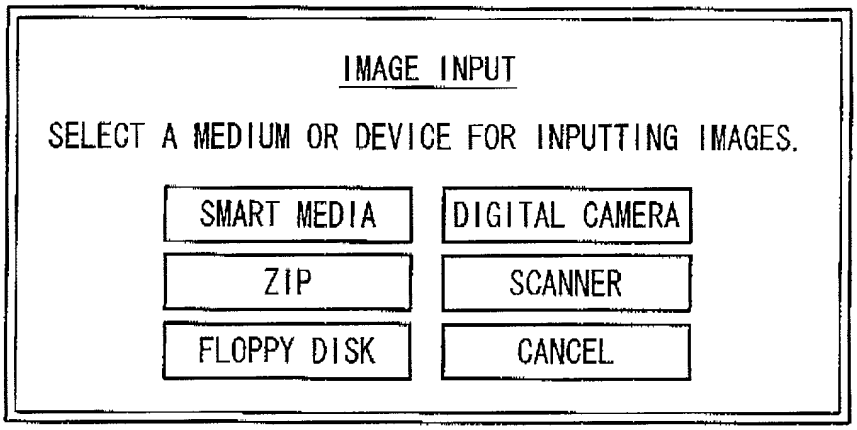


IMAGE INPUT
SELECT A MEDIUM OR DEVICE FOR INPUTTING IMAGES.
SMART MEDIA
DIGITAL CAMERA
ZIP
SCANNER
FLOPPY DISK
CANCEL

FIG. 43

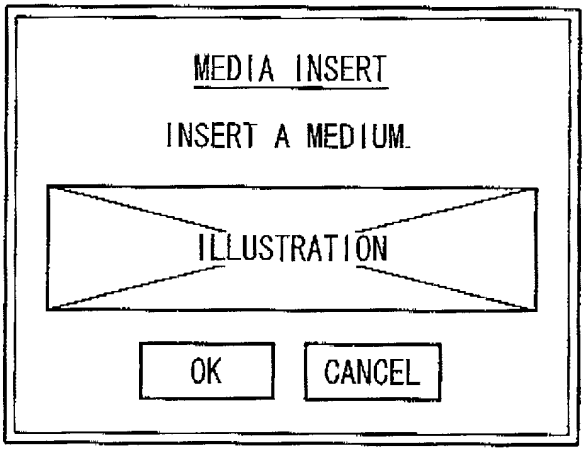

MEDIA INSERT
INSERT A MEDIUM.
ILLUSTRATION
OK
CANCEL

FIG. 44

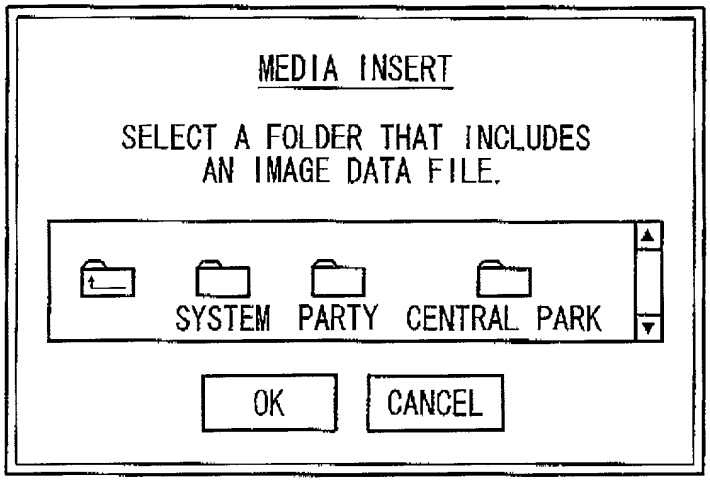

MEDIA INSERT
SELECT A FOLDER THAT INCLUDES AN IMAGE DATA FILE.
SYSTEM
PARTY
CENTRAL PARK
OK
CANCEL

FIG. 45

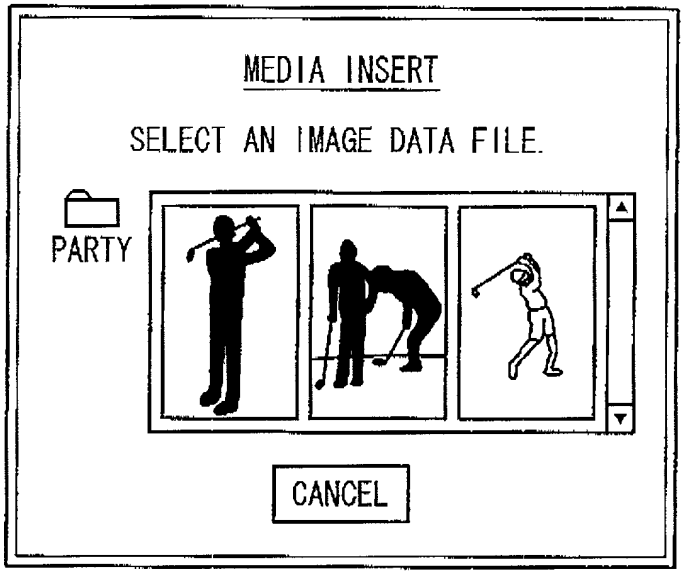

MEDIA INSERT
SELECT AN IMAGE DATA FILE.
PARTY
CANCEL

FIG. 46

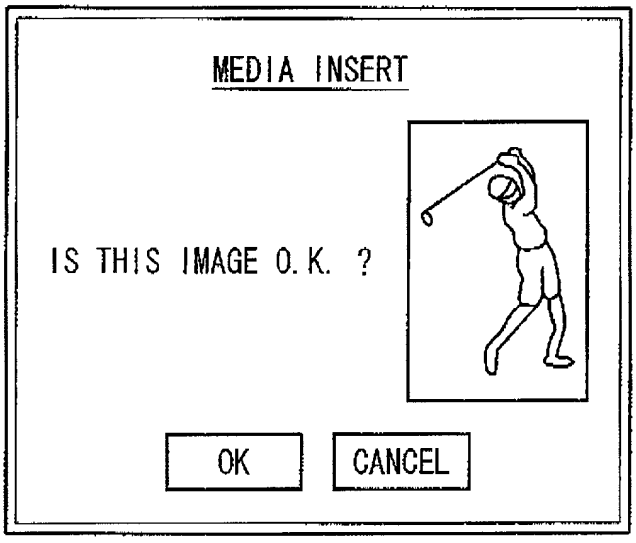

MEDIA INSERT
IS THIS IMAGE O.K. ?
OK
CANCEL

FIG. 47

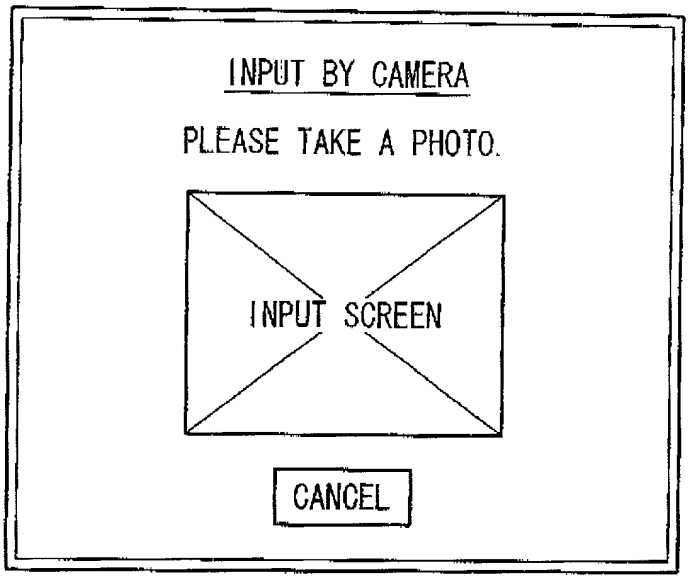

INPUT BY CAMERA
PLEASE TAKE A PHOTO.
INPUT SCREEN
CANCEL

FIG. 48

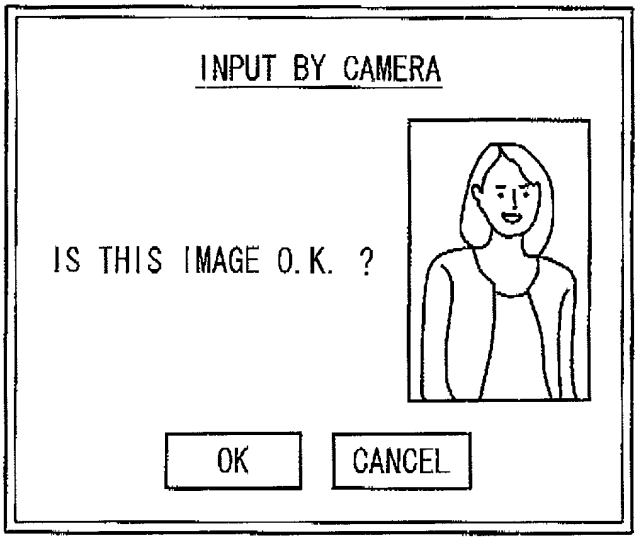

INPUT BY CAMERA
IS THIS IMAGE O.K. ?
OK
CANCEL

FIG. 49

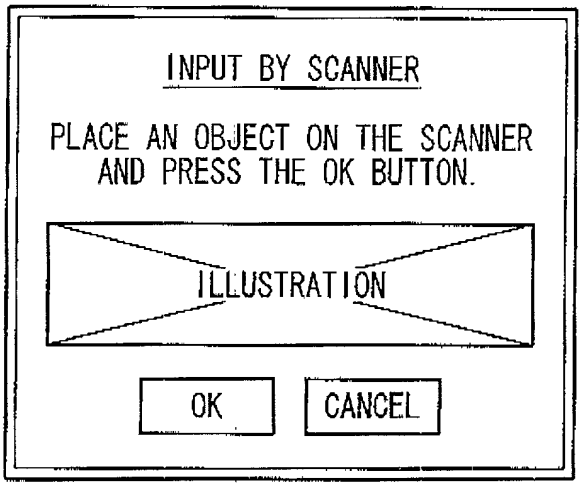

INPUT BY SCANNER
PLACE AN OBJECT ON THE SCANNER AND PRESS THE OK BUTTON.
ILLUSTRATION
OK
CANCEL

FIG. 50

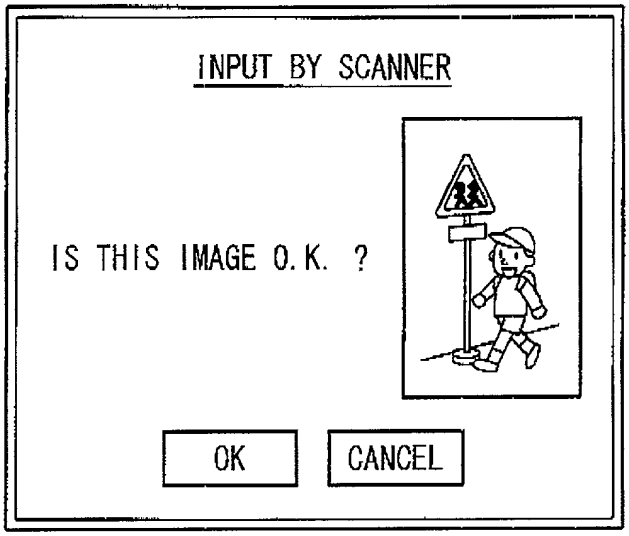

INPUT BY SCANNER
IS THIS IMAGE O.K. ?
OK
CANCEL

FIG. 51

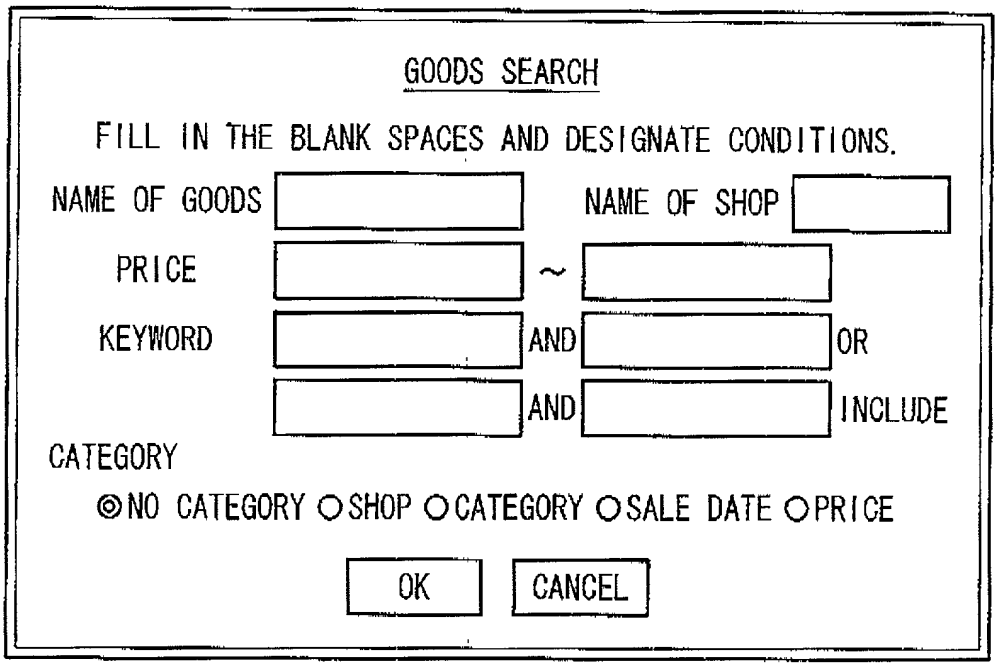

GOODS SEARCH
FILL IN THE BLANK SPACES AND DESIGNATE CONDITIONS.
NAME OF GOODS
NAME OF SHOP
PRICE
~
KEYWORD
AND
OR
AND
INCLUDE
CATEGORY
◎NO CATEGORY ○SHOP ○CATEGORY ○SALE DATE ○PRICE
OK
CANCEL

FIG. 52

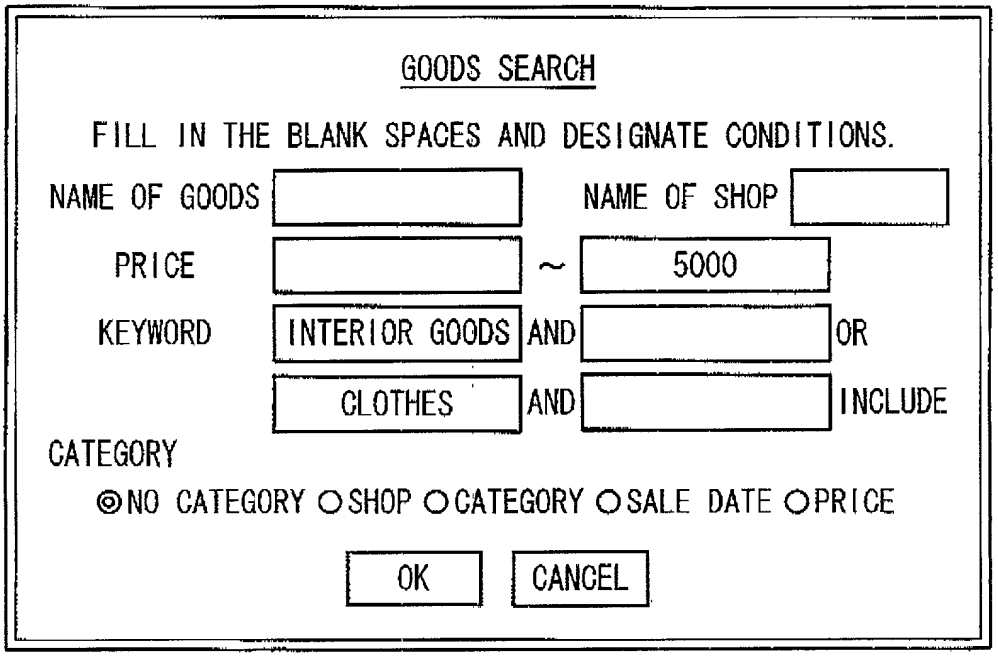

GOODS SEARCH
FILL IN THE BLANK SPACES AND DESIGNATE CONDITIONS.
NAME OF GOODS
NAME OF SHOP
PRICE
~
5000
KEYWORD
INTERIOR GOODS
AND
OR
CLOTHES
AND
INCLUDE
CATEGORY
◎NO CATEGORY ○SHOP ○CATEGORY ○SALE DATE ○PRICE
OK
CANCEL

FIG. 53

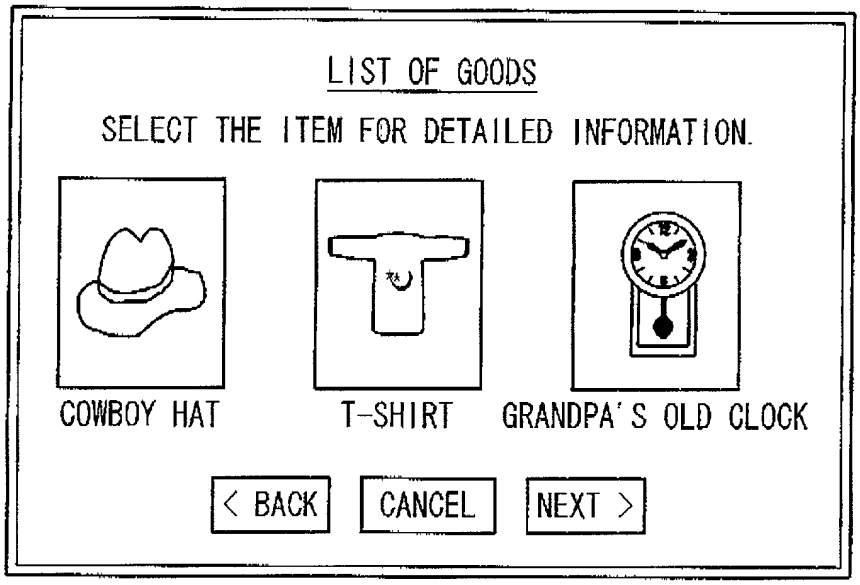

LIST OF GOODS
SELECT THE ITEM FOR DETAILED INFORMATION.
COWBOY HAT
T-SHIRT
GRANDPA'S OLD CLOCK
< BACK
CANCEL
NEXT >

FIG. 54

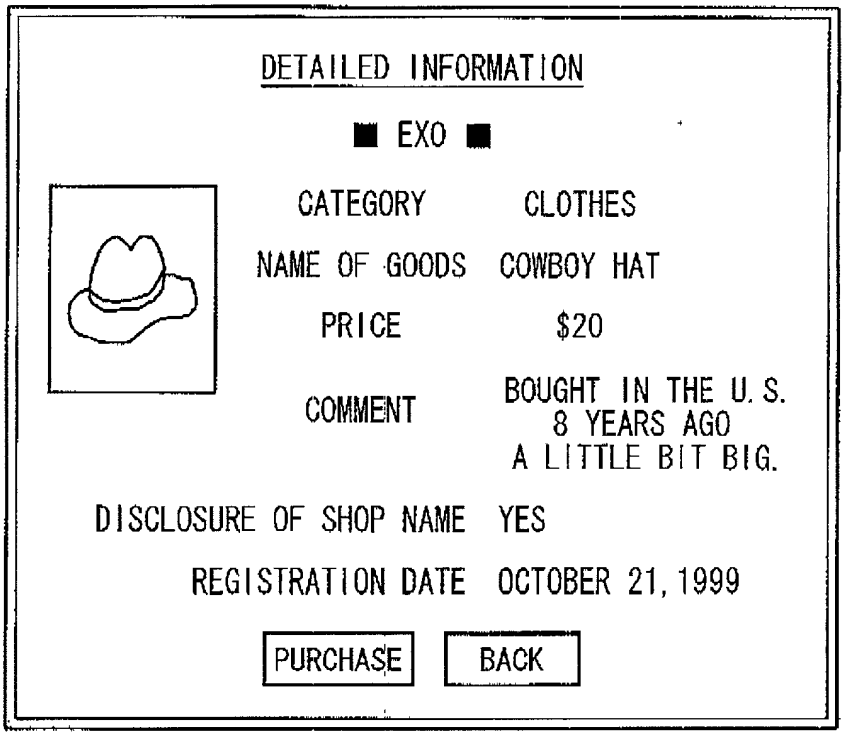

DETAILED INFORMATION
■ EXO ■
CATEGORY CLOTHES
NAME OF GOODS COWBOY HAT
PRICE $20
COMMENT BOUGHT IN THE U.S.
8 YEARS AGO
A LITTLE BIT BIG.
DISCLOSURE OF SHOP NAME YES
REGISTRATION DATE OCTOBER 21, 1999
PURCHASE
BACK

FIG. 55

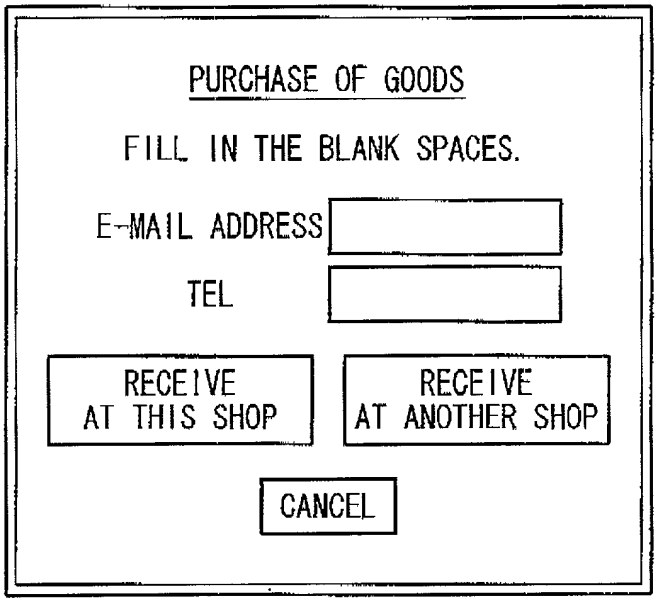

PURCHASE OF GOODS
FILL IN THE BLANK SPACES.
E-MAIL ADDRESS
TEL
RECEIVE AT THIS SHOP
RECEIVE AT ANOTHER SHOP
CANCEL

FIG. 56

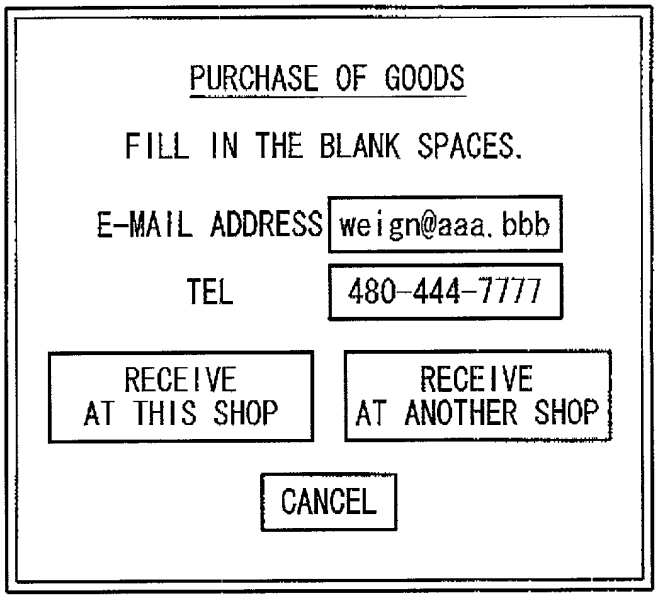

PURCHASE OF GOODS
FILL IN THE BLANK SPACES.
E-MAIL ADDRESS
weign@aaa.bbb
TEL
480-444-7777
RECEIVE AT THIS SHOP
RECEIVE AT ANOTHER SHOP
CANCEL

FIG. 57

SHOP SELECTION

SELECT A SHOP FOR RECEIVING GOODS.

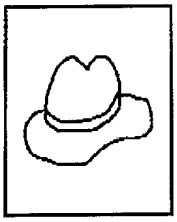
● BONITA	● SAN DIEGO	● LA JOLLA
● CHULA VISTA	● CLAIREMONT	● MIRAMAR
● NATIONAL CITY	● MEL MAR	●LINDA VISTA

BACK

FIG. 58

CONFIRMATION OF PURCHASE

DO YOU WANT TO PURCHASE THIS ITEM ?



CATEGORY	CLOTHES
NAME OF GOODS	COWBOY HAT
PRICE	$20
COMMENT	BOUGHT IN THE U.S. 8 YEARS AGO A LITTLE BIT BIG.

DISCLOSURE OF SHOP NAME YES

REGISTRATION DATE OCTOBER 22, 1999

RECEIVING SHOP:BONITA

OK BACK

FIG. 59

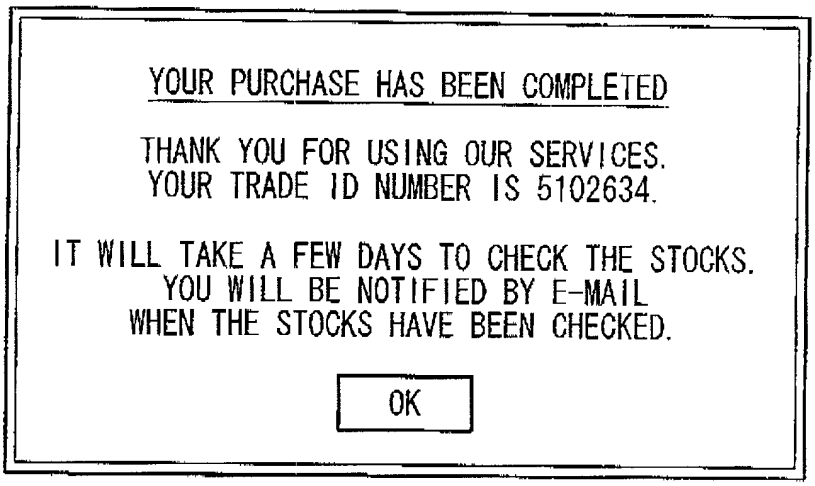

YOUR PURCHASE HAS BEEN COMPLETED
THANK YOU FOR USING OUR SERVICES.
YOUR TRADE ID NUMBER IS 5102634.
IT WILL TAKE A FEW DAYS TO CHECK THE STOCKS.
YOU WILL BE NOTIFIED BY E-MAIL
WHEN THE STOCKS HAVE BEEN CHECKED.
OK

FIG. 60

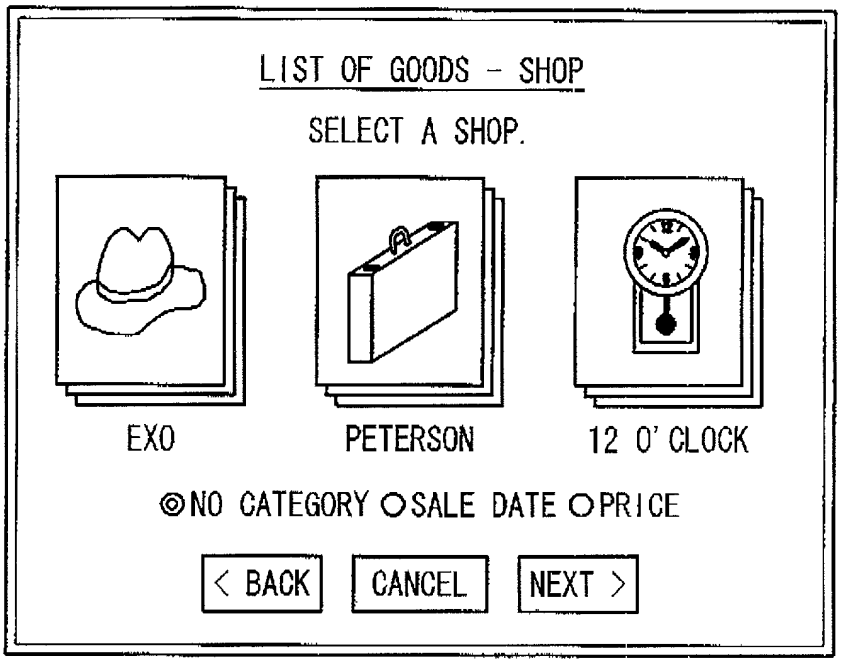

LIST OF GOODS - SHOP
SELECT A SHOP.
EXO
PETERSON
12 O' CLOCK
◎NO CATEGORY ○SALE DATE ○PRICE
< BACK
CANCEL
NEXT >

FIG. 61

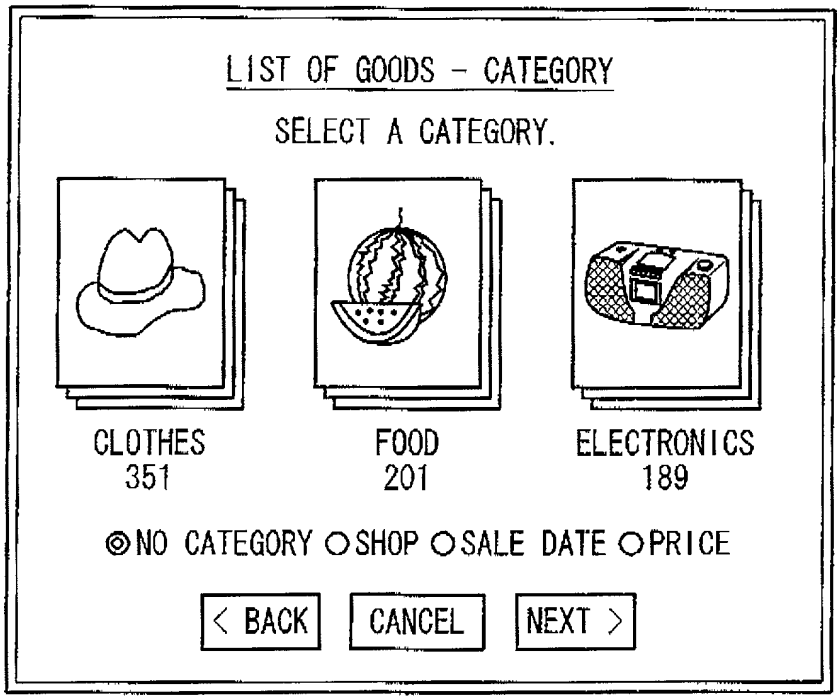

LIST OF GOODS - CATEGORY
SELECT A CATEGORY.
CLOTHES
351
FOOD
201
ELECTRONICS
189
◎NO CATEGORY ○SHOP ○SALE DATE ○PRICE
< BACK
CANCEL
NEXT >

FIG. 62

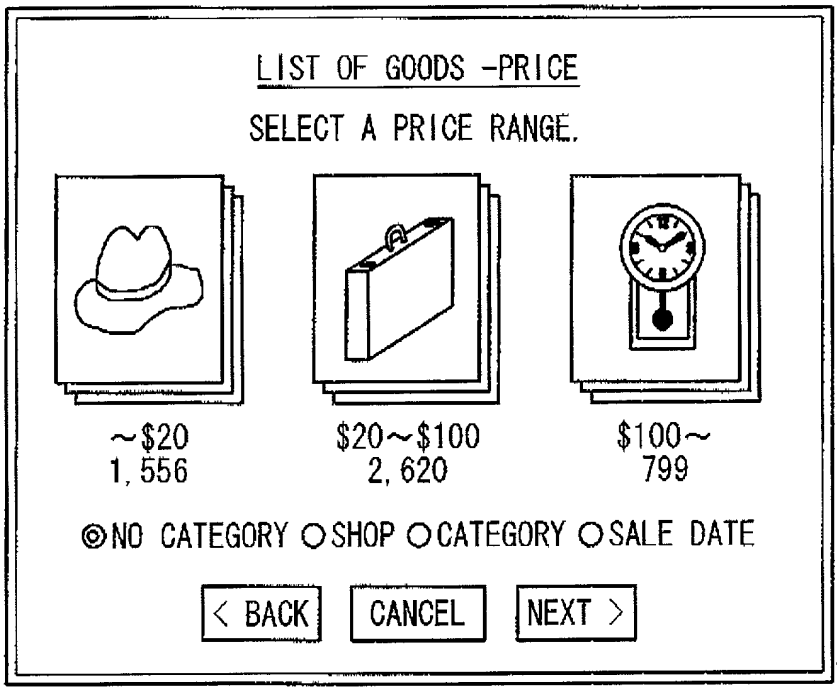

LIST OF GOODS -PRICE
SELECT A PRICE RANGE.
~$20
1,556
$20~$100
2,620
$100~
799
◎NO CATEGORY ○SHOP ○CATEGORY ○SALE DATE
< BACK
CANCEL
NEXT >

FIG. 63

TYPE	10～	50～100	100～500	500～2000	2000～
TYPE A	95%	90%	85%	80%	75%
TYPE B	90%	90%	90%	90%	90%
TYPE C	100%	100%	80%	80%	80%

FIG. 64

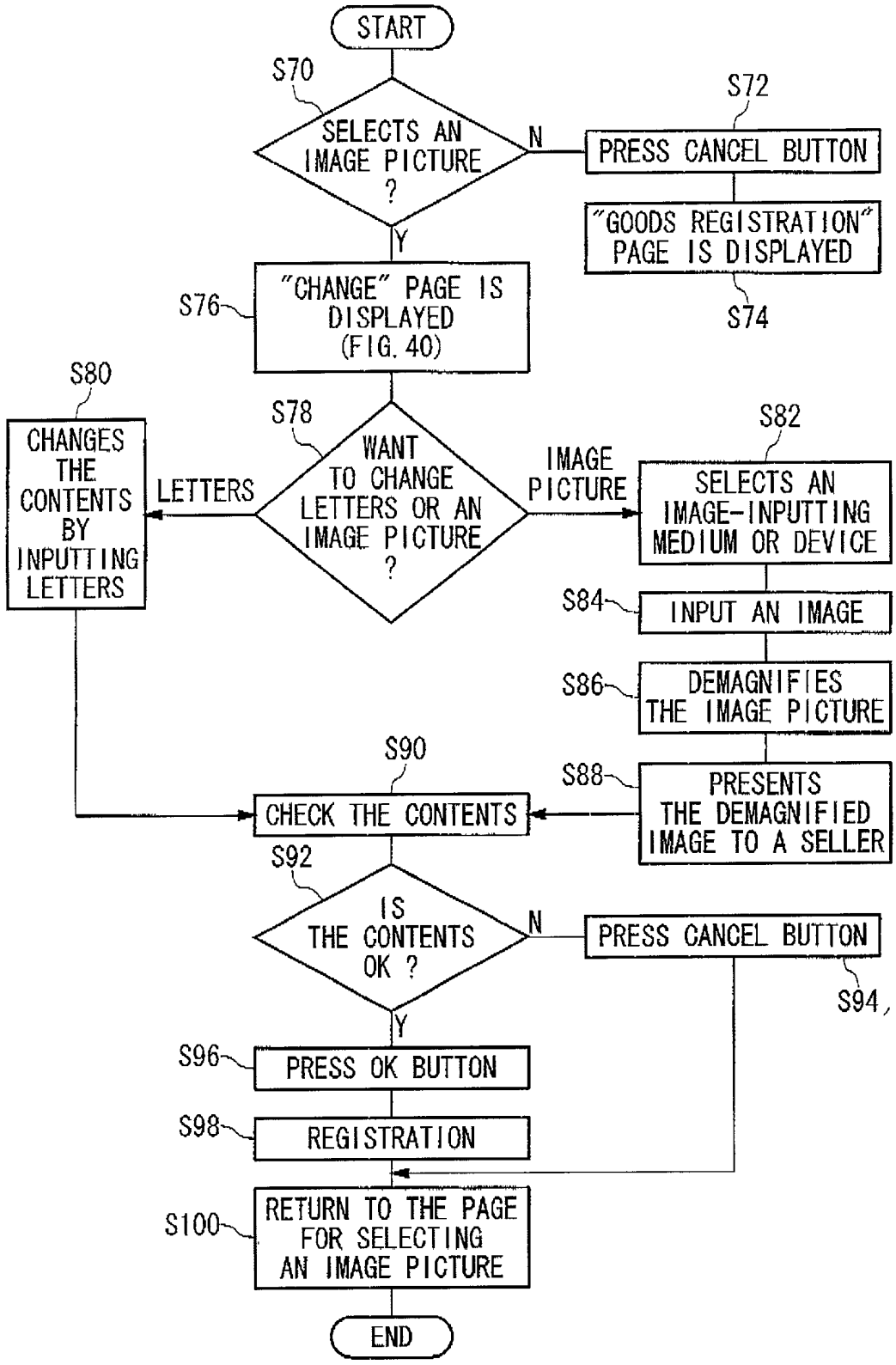

START
S70
SELECTS AN IMAGE PICTURE ?
N
S72
PRESS CANCEL BUTTON
"GOODS REGISTRATION" PAGE IS DISPLAYED
S74
Y
S76
"CHANGE" PAGE IS DISPLAYED (FIG. 40)
S78
WANT TO CHANGE LETTERS OR AN IMAGE PICTURE ?
LETTERS
IMAGE PICTURE
S80
CHANGES THE CONTENTS BY INPUTTING LETTERS
S82
SELECTS AN IMAGE-INPUTTING MEDIUM OR DEVICE
S84
INPUT AN IMAGE
S86
DEMAGNIFIES THE IMAGE PICTURE
S88
PRESENTS THE DEMAGNIFIED IMAGE TO A SELLER
S90
CHECK THE CONTENTS
S92
IS THE CONTENTS OK ?
N
PRESS CANCEL BUTTON
S94
Y
S96
PRESS OK BUTTON
S98
REGISTRATION
S100
RETURN TO THE PAGE FOR SELECTING AN IMAGE PICTURE
END

FIG. 65